

B65G

TRANSPORT OR STORAGE DEVICES, e.g. CONVEYORS FOR LOADING OR TIPPING, SHOP CONVEYOR SYSTEMS OR PNEUMATIC TUBE CONVEYORS (packaging [B65B](#); handling thin or filamentary materials, e.g. paper sheets or thread, [B65H](#); cranes [B66C](#); portable mobile or lifting or hauling appliances, e.g. hoists, [B66D](#); devices for lifting or lowering goods for loading or unloading purposes, e.g. fork-lift trucks, [B66F 9/00](#); emptying bottles, jars, casks, barrels or similar containers, not otherwise provided for, [B67C 9/00](#); delivering or transferring liquids [B67D](#); filling or discharging vessels for liquefied, solidified or compressed gases [F17C](#); pipe-line systems for fluids [F17D](#))

Definition statement

This place covers:

Methods or devices for storage on an industrial or commercial scale of

Methods or devices for storage on an industrial or commercial scale of:

- articles in warehouses or magazines;
- bulk solid material or disorderly articles; and
- fluids in cavities or chambers in the earth.

Devices, for example rollers or slings, for assisting manual moving or manipulation of heavy loads.

Methods or apparatus for conveying articles or bulk solid material from one location to another, for example within an industrial plant:

- by gravity, for example in chutes;
- by rollers, for example on driven or non-driven roller-ways;
- on endless load-carrying surfaces, for example belts or chains, or an essentially endless series of individual load-carriers;
- on jiggling surfaces;
- by impellers, for example reciprocating scrapers, rotating fingers or elements carried by endless traction members;
- by throwing;
- by rotating or screw-like impellers;
- by fluid flow or pressure, for example in tubes or by floating;
- by electrostatic, electric or magnetic effects; or
- by other mechanical or non-mechanical means.

Methods or devices for handling articles or materials in connection with conveyors, for example for feeding or discharging conveyors or for orientating articles on a conveyor.

Conveying systems characterised by their application for specified purposes and not otherwise provided for, for example conveying workpieces through baths.

Methods or devices for stacking or de-stacking of three-dimensional articles or loose materials in bulk.

Methods or devices for loading or unloading of vehicles, large containers, ships and the like, for example in storage areas, marshalling yards or harbours.

Relationships with other classification places

Storage

Relationships with other classification places

This subclass is the general, function-oriented place for mechanical aspects of storage of the articles and materials stated in the definition statement above. Classification is made in this subclass if the method or apparatus is of general interest in the field of storing. This subclass does not cover modification or treatment of materials by storing, for example by drying or maturing.

If the method or apparatus is characterised by its adaptation to particular materials or articles (for example silage or parked cars) it is classified in the place for that adaptation, if such a place exists. For examples of application places, see the section "References relevant to classification in this subclass" below.

If subject matter is of interest both for its general function-oriented aspects and its application aspects, classification should be made both in this subclass and in the place for the application.

Conveyors

This subclass is the general, function-oriented place for conveyors or similar transport devices. Such devices are incorporated in many different types of apparatus and industrial plants. Classification is made in this subclass if the method or apparatus is of general interest in the field of conveying, for example when it relates to the solution of a problem that is internal to a conveyor (for example a driving mechanism) or not primarily related to a particular process.

If the method or apparatus is characterised by its adaptation to a particular process (for example drying or heat treatment) or its incorporation in a particular apparatus (for example a root-crop harvester or a furnace), it is classified in the place for that process or apparatus, if such a place exists. For examples of application places, see the section "References relevant to classification in this subclass" below. This subclass does not cover processes in which articles or materials are modified or treated during conveying.

If subject matter is of interest both for its general function-oriented aspects and its application aspects, classification should be made both in this subclass and in the place for the application.

Transport devices

This subclass essentially covers stationary or portable transportation devices, such as conveyors or conveying systems. It does not cover vehicles per se, which are covered by classes [B60](#) - [B64](#), or containers, trays or pallets, which are covered by [B65D](#). For more detailed references see the section "Informative references" below.

Loading and unloading

This subclass covers loading and unloading of vehicles, ships and aircraft by means which are not incorporated in those vehicles. Loading by means which are incorporated in vehicles is covered by the places for the vehicles. For examples of such places see the section "References relevant to classification in this subclass" below.

Filling and emptying

This subclass covers general, function-oriented aspects of filling and emptying of larger containers, such as bunkers or hoppers. Classification is made in this subclass if the method or apparatus is of general interest in the field.

If the method or apparatus is characterised by its adaptation to particular materials or processes (for example in forage silos or coke ovens) it is classified in the place for that adaptation, if such a place exists. For examples of application places, see the section "References relevant to classification in this subclass" below.

If subject matter is of interest both for its general function-oriented aspects and its application aspects, classification should be made both in this subclass and in the place for the application.

Relationships with other classification places

This subclass does not cover filling of packages or small containers, for example boxes or cans, which is covered by subclass [B65B](#).

With the exception of manual tilting of barrels, which is covered by [B65G 65/24](#), this subclass does not cover emptying of small containers, for example cans or casks, which is covered by [B65B](#) and [B67C 9/00](#).

References

Limiting references

This place does not cover:

Packaging	B65B
Handling of thin or filamentary material, e.g. sheets, webs or cables	B65H
Cranes	B66C
Portable or movable lifting or hauling appliances, e.g. hoists	B66D
Devices for lifting or lowering goods for loading or unloading purposes, e.g. fork-lift trucks	B66F 9/00
Emptying bottles, jars, casks, barrels or similar containers, not otherwise provided for	B67C 9/00
Delivering or transferring liquids, not otherwise provided for	B67D
Filling or discharging vessels for liquefied, solidified or compressed gases	F17C
Pipe-line systems for fluids	F17D

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Sowing or planting machines, manure loaders or distributors	A01C
Conveyors for root crop harvesters	A01D 17/00-A01D 33/00
Conveyors for mowers, harvesters or combines	A01D 41/00-A01D 61/00
Loaders for hay or like field crops	A01D 87/00-A01D 90/00
Conveyors for threshing machines, baling presses or cutting apparatus for hay or straw	A01F
Storing agricultural or horticultural produce	A01F 25/00
Hydroponic culture on conveyors	A01G 31/04
Baking ovens with moving baking surfaces	A21B 1/42
Dough handling	A21C 9/00
Processing meat, poultry or fish	A22C
Pasteurising of food in moving packages	A23B 2/20
Conveyors for cigar- or cigarette-making	A24C 5/35
Conveyors for shoemaking	A43D 117/00
Food-conveying devices for tables	A47G 23/08
Dish-washing machines with conveyors	A47L 15/24
Chutes or helter-skelters for amusement purposes	A63G 21/00
Filtering	B01D

Granulating on conveyor belts	B01J 2/26
Feeding devices for crushing or disintegrating machines	B02C 23/02
Separating solid materials	B03B
Magnetic separation with material carriers in the form of belts	B03C 1/16
Sieving, screening, sifting or sorting solid materials	B07B
Sorting of mail or documents	B07C
Cleaning of containers on conveyors	B08B 9/20
Arrangement of feeding rollers in metal-rolling mills	B21B 39/10
Handling work in processing of metal tubes or profiles	B21D 43/00
Handling work in connection with machine tools	B23Q 7/00
Features related to transfer of work between metal-working machines	B23Q 41/02
Handling logs or timber in saw mills	B27B 31/00
Transporting material in manufacture of fibre boards	B27N 3/16
Producing shaped articles from ceramic compositions in moulds	B28B 5/00
Feeding unshaped ceramic compositions to moulds or apparatus for producing shaped articles	B28B 13/00
Mixing concrete on or by conveyors	B28C 5/34
Handling material in shaping or joining of plastics	B29C 31/00
Conveying between operating stations in book-making machines	B42C 19/08
Endless chains or belts for unloading of vehicles	B60P 1/36
Screw conveyors for unloading of vehicles	B60P 1/40
Conveyor systems for motor vehicle or trailer assembly lines	B62D 65/18
Arrangement of conveyors for loading of ships	B63B 27/22
Gathering or removal of refuse	B65F
Transferring of refuse between vehicles or containers	B65F 9/00
Elevators for buildings, mines or similar structures	B66B 1/00-B66B 20/00
Escalators or moving walkways	B66B 21/00-B66B 29/00
Transporting glass during manufacture	C03B 35/00
Coke-ovens with mechanical conveying means	C10B 7/00
Charging coke ovens	C10B 31/00
Discharging coke ovens	C10B 33/00
Cooling or quenching coke combined with conveying means	C10B 39/12
Destructive distillation of solid carbonaceous materials in ovens with mechanical conveying means	C10B 47/32
Conveying textile fibres between machines	D01G 23/00
Drying cabinets or chambers with conveying means	D06F 58/12
Dredging or soil-shifting	E02F
Chutes in buildings for transporting refuse	E04F 17/12
Conveying building materials or building elements	E04G 21/00
Garages with mechanical means for shifting or lifting vehicles	E04H 6/14

Removal of material in open-pit mines	E21C 47/00
Transport specially adapted for underground conditions	E21F 13/00
Fuel-feeding grates for combustion chambers	F23H
Removing ash, clinker or slag from combustion chambers	F23J 1/00
Feeding solid fuel to combustion apparatus	F23K 3/00
Devices using liquefied gases with conveyors carrying articles to be cooled	F25D 3/11
Stationary devices with conveyors carrying articles to be cooled	F25D 13/06
Charging, supporting or discharging articles to be cooled	F25D 25/00
Drying objects with progressive movement	F26B 15/00
Furnaces through which the charge is moved mechanically	F27B 9/00
Charging, discharging or manipulating charge in ovens	F27D 3/00
Feeding of ammunition	F41A 9/00
Conveyor-belt weighers	G01G 11/00
Weighing apparatus with automatic feed or discharge for weighing-out batches	G01G 13/00
Conveying record carriers	G06K 13/00
Counting of objects carried by a conveyor	G06M 7/00
Coin-freed apparatus dispensing articles from movable containers	G07F 11/46
Arrangements for handling fuel or other materials which are used in nuclear reactors	G21C 19/00
Feeding of components in manufacturing of electric components	H05K 13/02
Handling semiconductor devices during manufacture or treatment	H10P 72/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Manipulators	B25J
Producing conveyor belts	B29D 29/06
Vehicles adapted for load transportation	B60P
Railway wagons adapted for load transportation	B61D
Hand carts	B62B
Superstructures for load-carrying vehicles	B62D 33/00
Load-accommodating arrangements for ships or vessels	B63B 25/00
Arrangements of ship-based loading or unloading equipment for cargo or passengers	B63B 27/00
Equipment for handling freight in aircraft	B64D 9/00
Construction of bulk storage containers employing civil engineering techniques	E04H 7/00
Pumps for fluids	F04D
Control of flow in general	G05D 7/00
Control of level in general	G05D 9/00

Holding or levitation devices using magnetic attraction or repulsion	H02N 15/00
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B65G 1/00

Storing articles, individually or in orderly arrangement, in warehouses or magazines (conveyor combinations in warehouses, magazines or workshops [B65G 37/00](#); stacking of articles [B65G 57/00](#); removing articles from stacks [B65G 59/00](#); loading machines [B65G 65/02](#))

References

Limiting references

This place does not cover:

Conveyor combinations in warehouses, magazines, or workshops	B65G 37/00
Stacking of articles	B65G 57/00
Removing articles from stacks	B65G 59/00
Loading machines	B65G 65/02

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements of articles for drying or baking in kilns or ovens	F26 , F27
Controlling the size of articles to be stored before storage (measuring arrangements),	G01B 11/00
Controlling the size of articles to be stored before storage (measuring contours),	G01B 11/24
Controlling the size of articles to be stored before storage (measuring the length or width)	G01B 21/06
Controlling the size of articles to be stored before storage (measuring the volume)	G01F 17/00
Controlling the size of articles to be stored before storage, (optical means, light barriers)	G01V 8/00
Analogue computers	G06G
Coin-freed dispensing apparatus	G07F 11/00

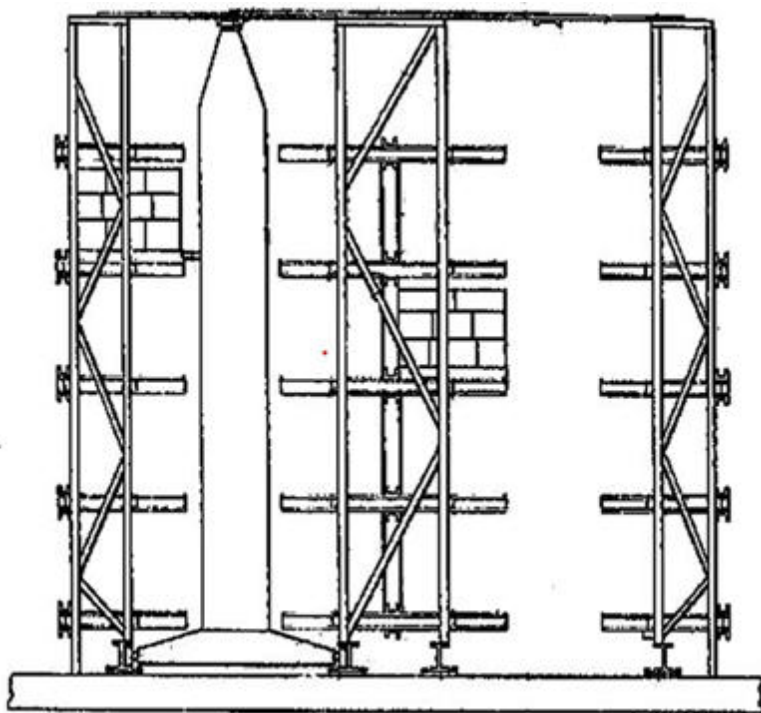
B65G 1/02

Storage devices (furniture [A47B](#); shop fittings [A47F](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Furniture	A47B
Shop fittings	A47F

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Mechanical garages	E04H
For data record cards in association with machines for marking or sensing data	G06K
Coin-freed apparatus	G07F

Informative references

Attention is drawn to the following places, which may be of interest for search:

For elongated articles	B65G 1/0442
Safety and protecting devices, e.g. against earthquake, collisions (fences, safety net, ...)	B65G 2207/20 , B65G 2207/40
For particular type of storing, e.g. cheese storage	A01J 25/162
Rack/shelf	A47B 47/021
Connection to the ground	A47B 91/00
Protecting rims, buffers	A47B 95/043
Table equipment	A47G
Pallets	B65D 19/00
Rail construction on the floor (for stacker crane)	E01B
Protection of shelves against forklift accident	E01F 15/141
Coin changers or sorters	G07D

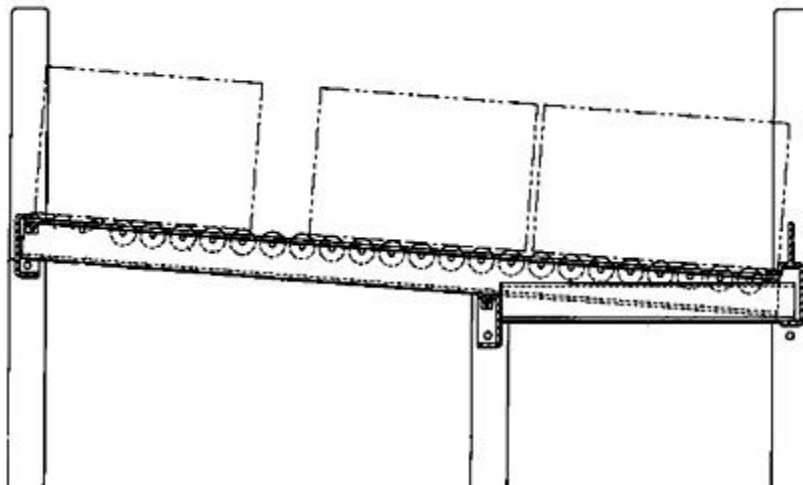
B65G 1/023

{Arrangements of article supporting rollers on racks}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Roller-ways	B65G 13/00
Roller frames	B65G 13/11
Arrangements of rollers mounted on framework	B65G 39/12

B65G 1/026

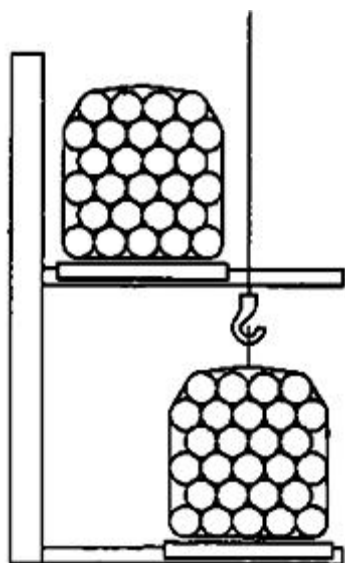
{Racks equipped with a displaceable load carrying surface to facilitate loading or unloading}

Definition statement

This place covers:

Only the supporting surface moves

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

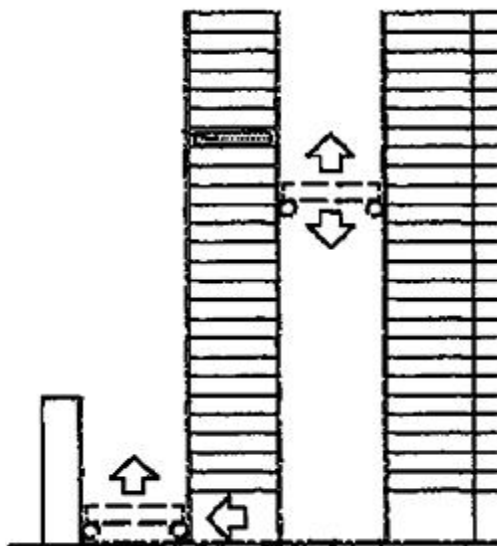
For movable supporting surface (movable shelves)	B65G 1/10
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B65G 1/04**mechanical****Definition statement**

This place covers:

It is the head group of mechanical devices used in conjunction with racks in order to charge, discharge the racks, provided these are not stacker cranes. This group also involves lifts, conveyor platforms (moving vertically) in form of racks.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Vertically or horizontally movable racks	B65G 1/127 , B65G 1/133
Control of position of vehicles	G05D 1/00

B65G 1/0407

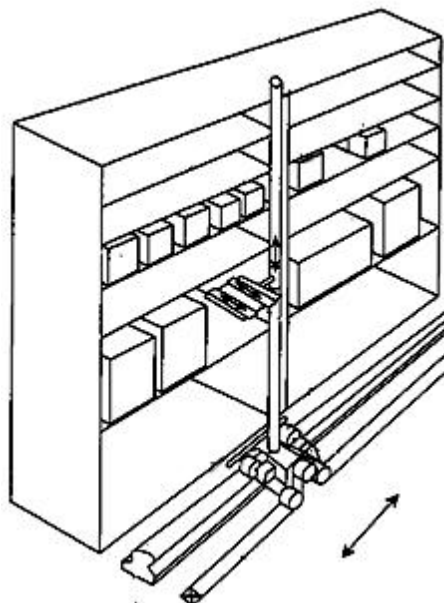
{using stacker cranes (constructional features of stacker cranes [B66F 9/06](#))}

Definition statement

This place covers:

Only for Stacker cranes movable along the shelves

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Stacker lifts	B65G 1/04
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatically guided forklift trucks	B66F 9/063
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B65G 1/0414

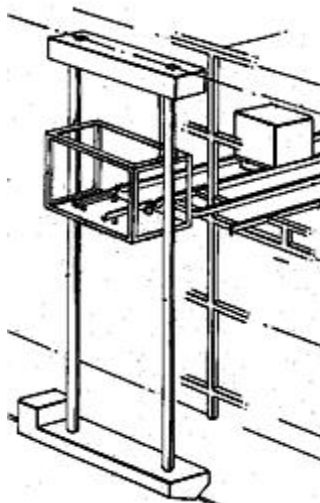
{provided with satellite cars adapted to travel in storage racks}

Definition statement

This place covers:

Satellite cars "controlled" by a stacker crane

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

with cars adapted to travel in storage aisles	B65G 1/0492
with self propelled cars	B65G 1/065

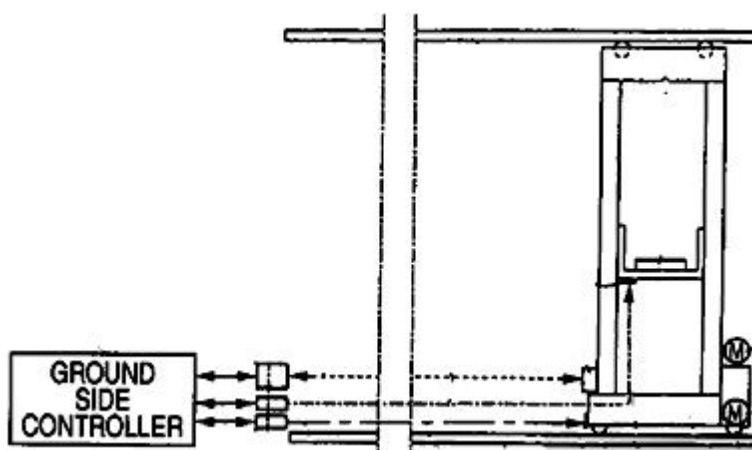
B65G 1/0421

{with control for stacker crane operations}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



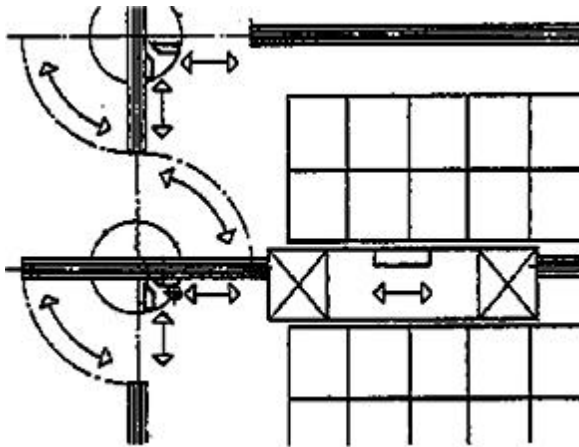
B65G 1/0428

{Transfer means for the stacker crane between the alleys}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

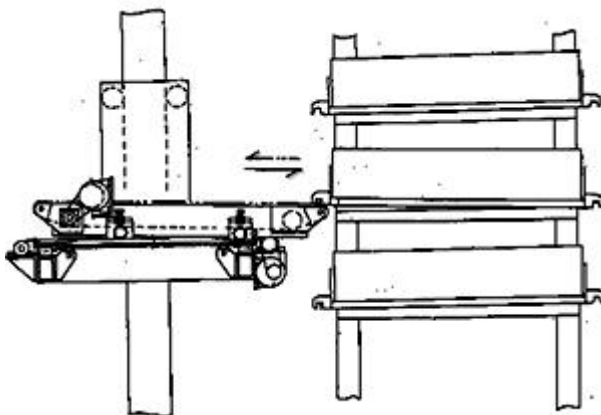
**B65G 1/0435**

{with pulling or pushing means on either stacking crane or stacking area}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



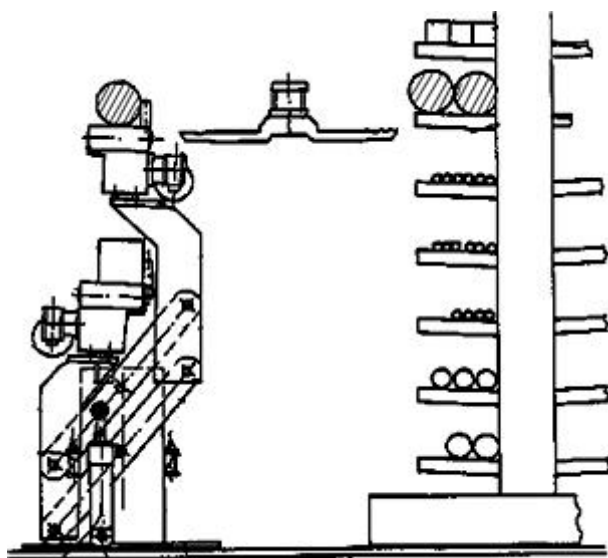
B65G 1/0442

{for elongated articles (drill pipe racking [E21B 19/14](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Storing articles, the articles being fed by gravity	B65G 1/08
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Broaching tools	B23D 43/00
Hoisting, lifting, hauling or pushing	B66F

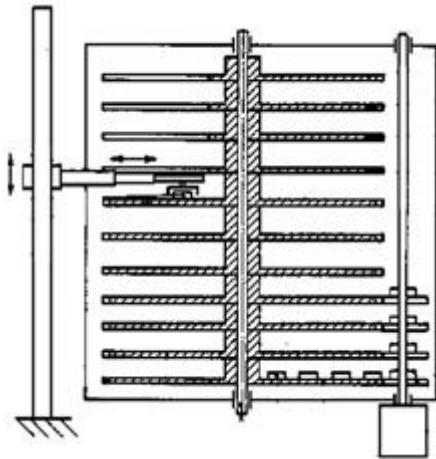
B65G 1/045

{in a circular arrangement, e.g. towers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

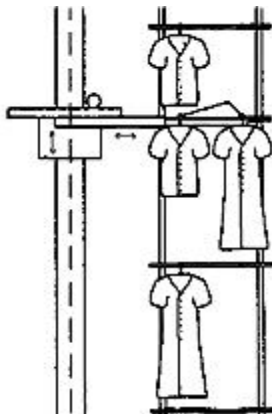
**B65G 1/0457**

{with suspended load carriers}

Definition statement

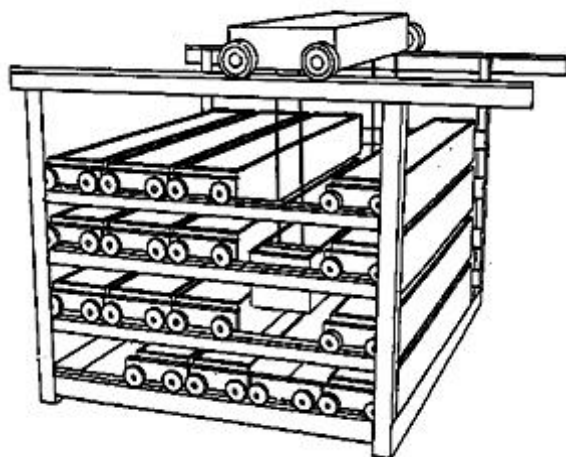
This place covers:

Illustrative example of subject matter classified in this group:



B65G 1/0464**{with access from above}****Definition statement***This place covers:*

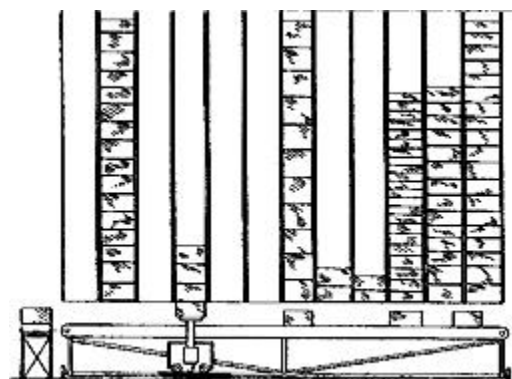
Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

When the articles stored above have to be moved away for access	B65G 1/026
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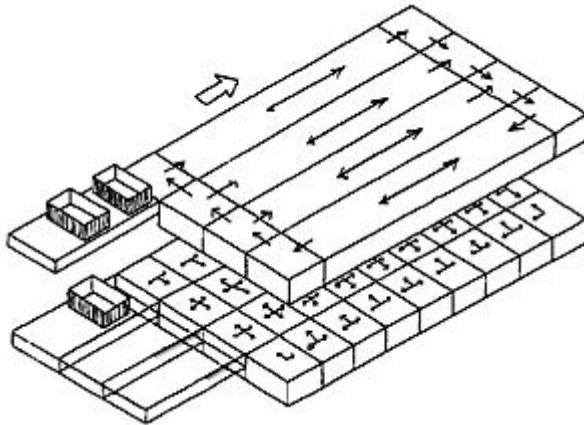
B65G 1/0471**{with access from beneath}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

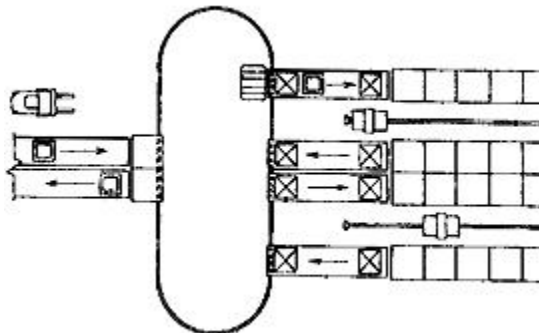


B65G 1/0478**{for matrix-arrangements}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

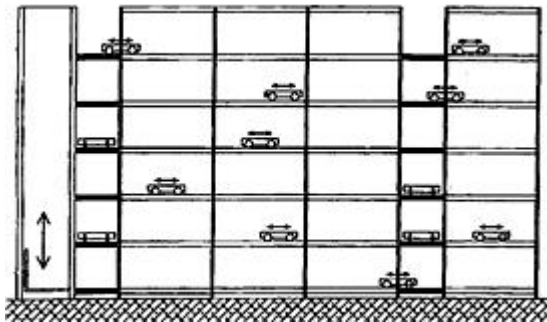
**B65G 1/0485****{Check-in, check-out devices}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 1/0492****{with cars adapted to travel in storage aisles}****Definition statement***This place covers:*

When independently controlled (not controlled by a stacker crane)

Illustrative example of subject matter classified in this group:



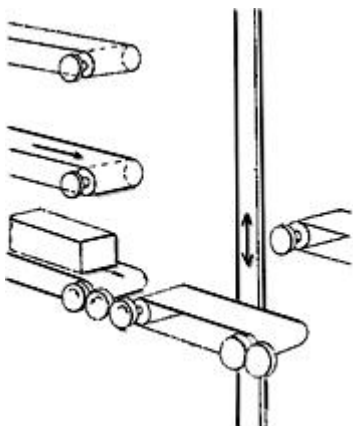
B65G 1/06

with means for presenting articles for removal at predetermined position or level ([B65G 1/12](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Article supports or holders	B65G 1/12
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B65G 1/065

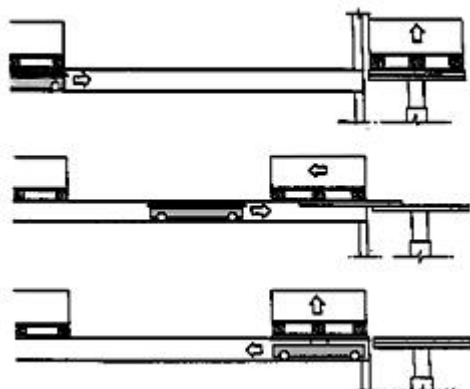
{with self propelled cars}

Definition statement

This place covers:

When the car is ONLY moving in a SINGLE storage shelf.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Using stacker cranes	B65G 1/0407
With cars adapted to travel in storage aisles	B65G 1/0492

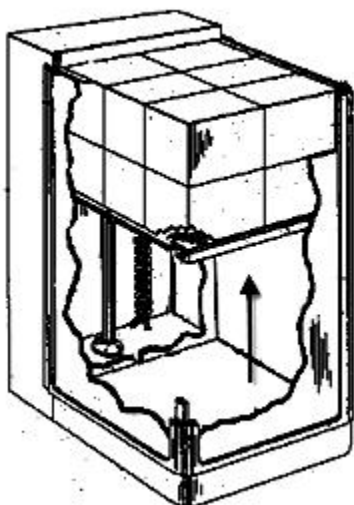
B65G 1/07

the upper article of a pile being always presented at the same predetermined level

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Racks	A47F 1/06
Hand carts	B62B 3/00
B65D 83/768	B65D 83/76

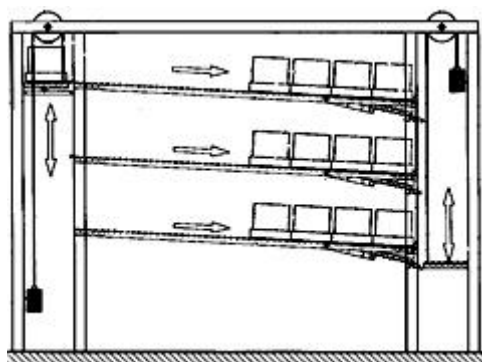
B65G 1/08

the articles being fed by gravity {(braking arrangements for roller-ways [B65G 13/075](#); separating or stopping elements [B65G 47/88](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 1/10

with relatively movable racks to facilitate insertion or removal of articles {(cabinets with means for moving compartments up and down [A47B 51/00](#); cabinet system, e.g. consisting of cabinets arranged in a row with means to open or close passages between adjacent cabinets [A47B 53/02](#))}

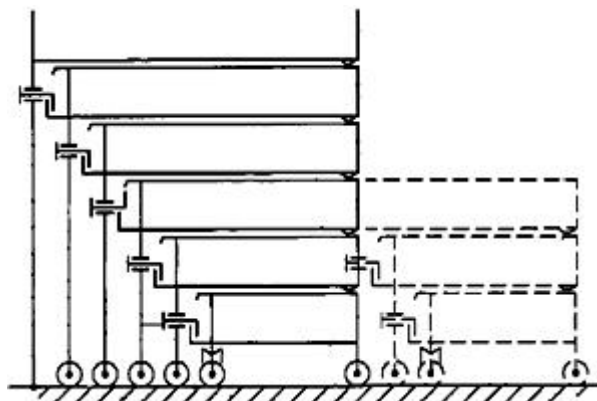
Definition statement

This place covers:

Racks movable for the passage of the crane

Definition statement

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Cabinets with means for moving compartments up and down	A47B 51/00
Cabinets arranged in a row with means to open or close passages between adjacent cabinets	A47B 53/02

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bringing articles in front of the shelf	A47F 1/12
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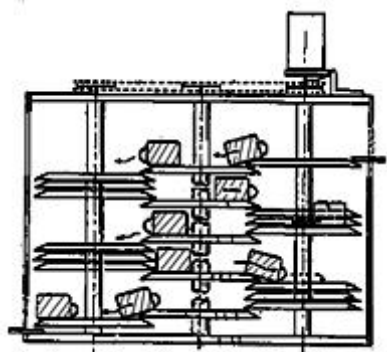
B65G 1/12

with {separate} article supports or holders movable in a closed circuit to facilitate insertion or removal of articles {the articles being books, documents, forms or the like}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Storage devices for data carriers	G11B 17/00
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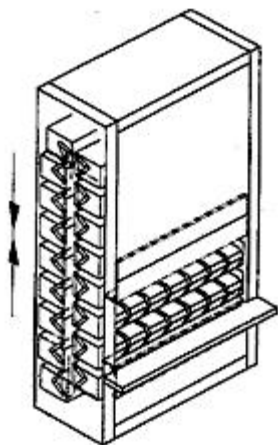
B65G 1/127

the circuit being confined in a vertical plane

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



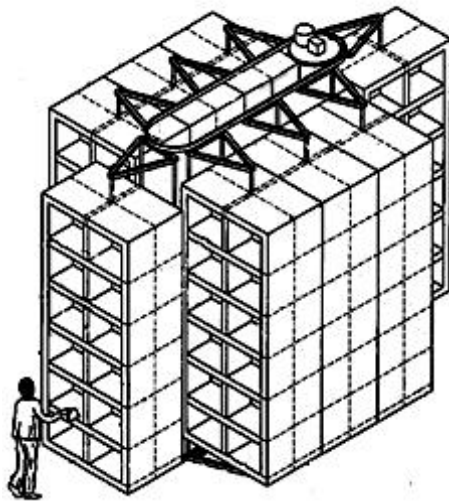
B65G 1/133

the circuit being confined in a horizontal plane

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

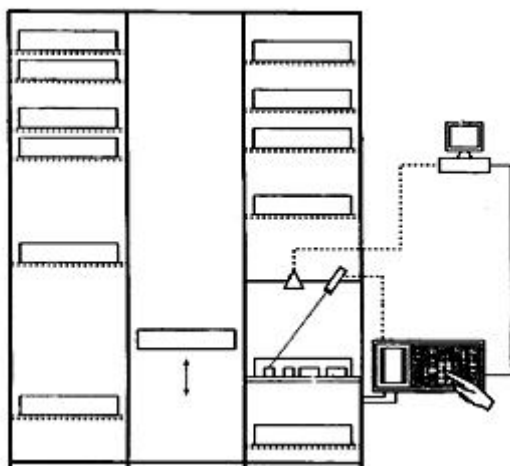
**B65G 1/137**

with arrangements or automatic control means for selecting which articles are to be removed

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Devices for feeding articles to conveyors from several groups of articles	B65G 47/04
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Informative references

Attention is drawn to the following places, which may be of interest for search:

For fulfilling orders in warehouses	B65G 1/1373
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B65G 1/1371

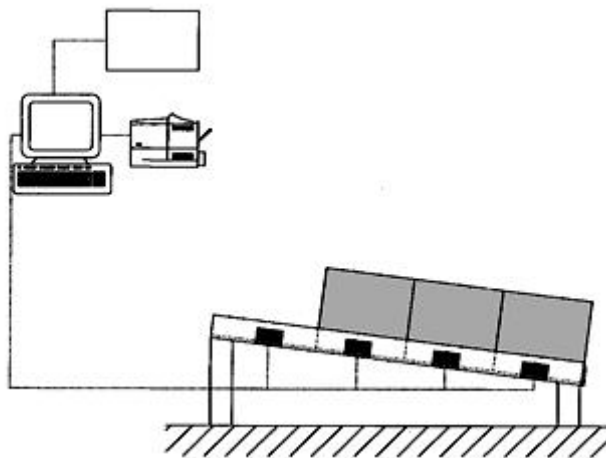
{with data records}

Definition statement

This place covers:

Record of data related to articles

Illustrative example of subject matter classified in this group:



References

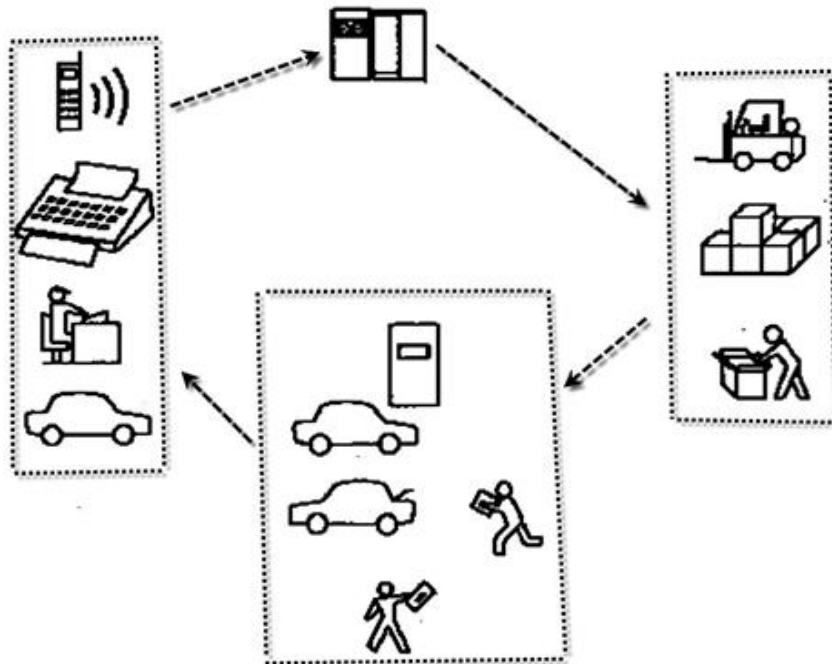
Informative references

Attention is drawn to the following places, which may be of interest for search:

Casings, enclosures or frames for labels	G09F 3/18
--	---------------------------

B65G 1/1373**{for fulfilling orders in warehouses}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Food conveying devices in restaurants	A47F 10/06
Medicaments	A61J 7/00
Recognition of data, handling record carriers	G06K 15/00
Logistic, for following the transport path of the articles	G06Q 10/08

B65G 1/1375

{the orders being assembled on a commissioning stacker-crane or truck}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



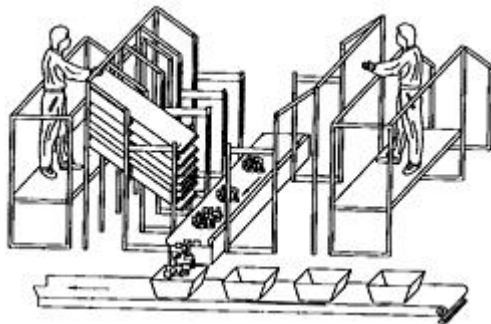
B65G 1/1376

{the orders being assembled on a commissioning conveyor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



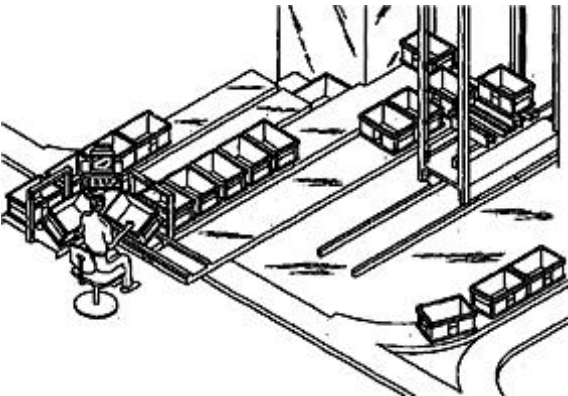
B65G 1/1378

{the orders being assembled on fixed commissioning areas remote from the storage areas}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



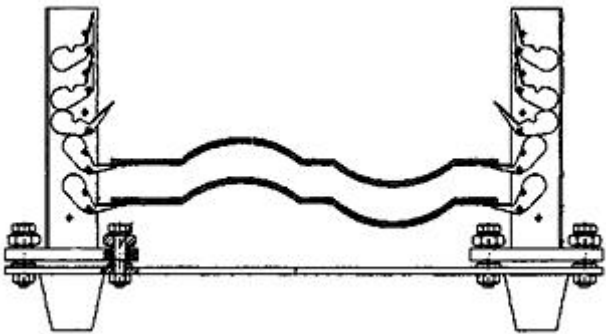
B65G 1/14

Stack holders or separators

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

For vehicles	B65D , B65D 19/44 , B65D 90/004 , B65D 85/68
Vehicle parts	B65D 2585/6882

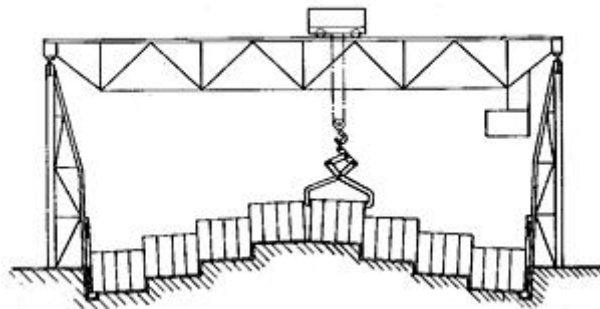
B65G 1/16

Special arrangements of articles in storage spaces

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



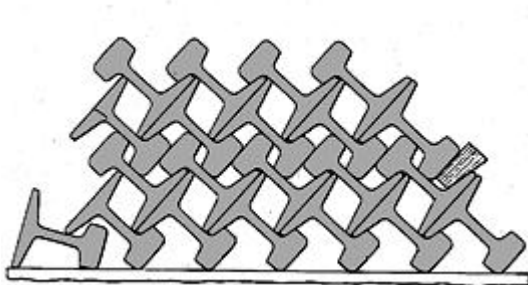
B65G 1/18

Articles inclined so as to be mutually self-supporting

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



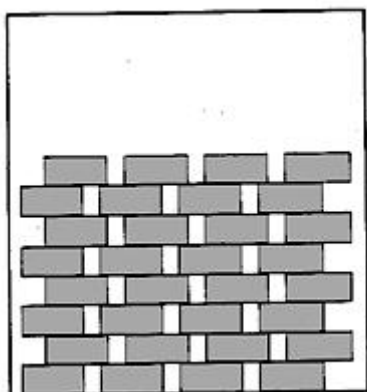
B65G 1/20

Articles arranged in layers with spaces between articles

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 3/00

Storing bulk material or loose, i.e. disorderly, articles (filling or emptying storage spaces or containers, spreading-out or piling-up bulk material or loose articles [B65G 65/28](#), [B65G 65/30](#), [B65G 69/04](#))

References

Limiting references

This place does not cover:

Filling or emptying storage spaces or containers, spreading-out or piling-up bulk material or loose articles	B65G 65/28 , B65G 65/30 , B65G 69/04
--	---

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transferring or trans-shipping at storage areas, railway yards or harbours; Marshalling yard installations	B65G 63/00
Storing agricultural or horticultural produce	A01F 25/00
Additives to prevent inflammation of the bulk material	C09K 15/00 , C09K 21/00
Anti-oxidant compositions; Compositions inhibiting chemical change	C09K 15/00
Fireproofing materials	C09K 21/00
Solid fuels	C10L 5/00

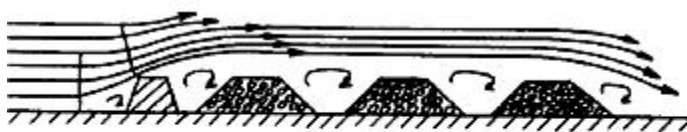
B65G 3/02

in the open air ([B65G 3/04](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

In bunkers, hoppers, or like containers	B65G 3/04
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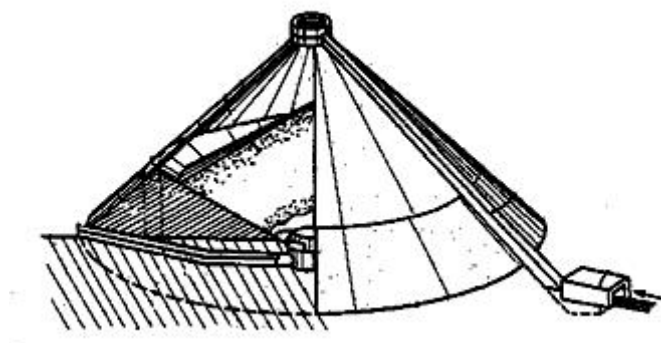
Informative references

Attention is drawn to the following places, which may be of interest for search:

Covering for agricultural produce	A01F 25/16
Covering of dumping sites	B09B 1/004
Biodegradable film	C09K 3/00
When the cavity or chamber is lined, documents	F17C 3/005

B65G 3/04**in bunkers, hoppers, or like containers****Definition statement***This place covers:*

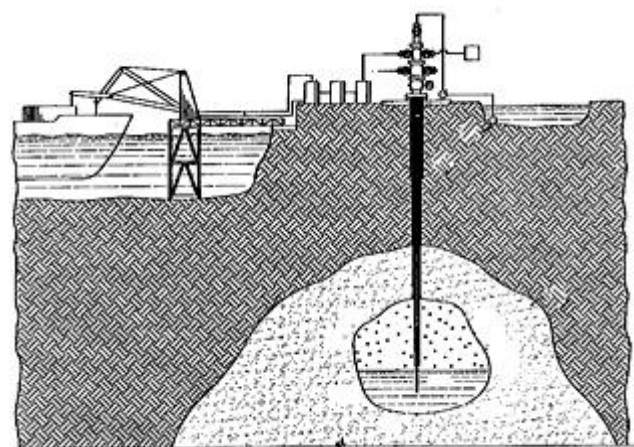
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

"Big" storage containers	B65D 88/00 , B65D 90/00 and E04H 7/00
Vessels containing liquified gases	F17C

B65G 5/00**Storing fluids in natural or artificial cavities or chambers in the earth****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Dumping solid waste	B09B 1/00
Treatment of carbon dioxide for sequestration	C01B 2203/86
Treatment of waste water, sewage or sludge	C02F
Treatment of metallic scrap	C22B 7/00
Carbon dioxide sequestration	E21B 41/0064
Modification of mine passages or chambers for storage purposes, especially for fluids	E21F 17/16
Storing compressed air for electricity production by a turbine or when a turbine compresses the air prior to storage	F02C 6/16
Gas-holders of variable capacity	F17B
Underground vessel for containing liquefied gas	F17C 1/007
Underground vessel not under pressure	F17C 3/005

B65G 5/005

{in porous layers}

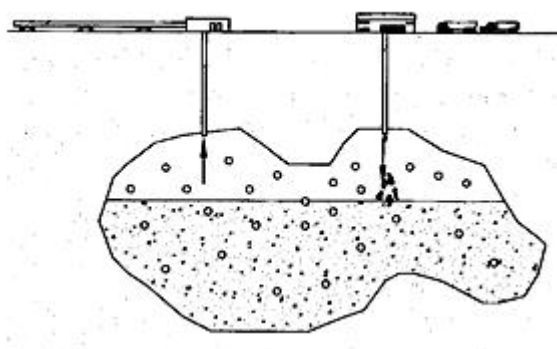
Definition statement

This place covers:

Type of layers and surrounding layers

Methods and devices to fill the porous layers

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pattern of wells	E21B 43/00
Production of coal-bed methane	E21B 43/006

B65G 7/00

Devices for assisting manual moving or tilting heavy loads (roller-ways [B65G 13/00](#); for tilting and emptying barrels or casks [B65G 65/24](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Roller-ways	B65G 13/00
For tilting and emptying barrels or casks	B65G 65/24

Informative references

Attention is drawn to the following places, which may be of interest for search:

Chutes	B65G 11/00
Transport for special purposes	B65G 2813/00
For bales, boxes or the like, by using pointed means	B65G 2813/026

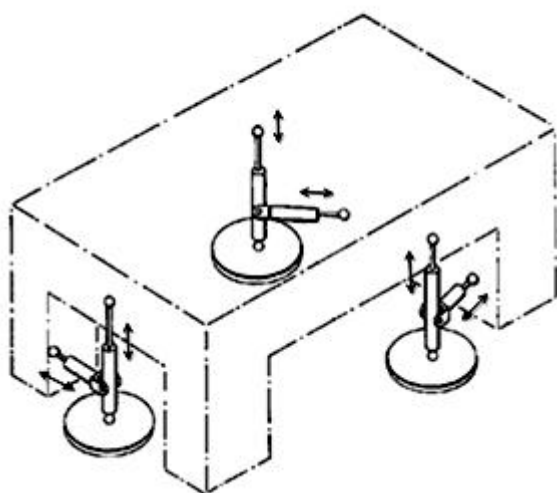
B65G 7/02

Devices adapted to be interposed between loads and the ground or floor, e.g. crowbars with means for assisting conveyance of loads

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Handcarts	B62B 5/02
Sledges	B62B 13/00
Lift jacks	B66F 3/00
Crowbars in general	B66F 15/00

B65G 7/04

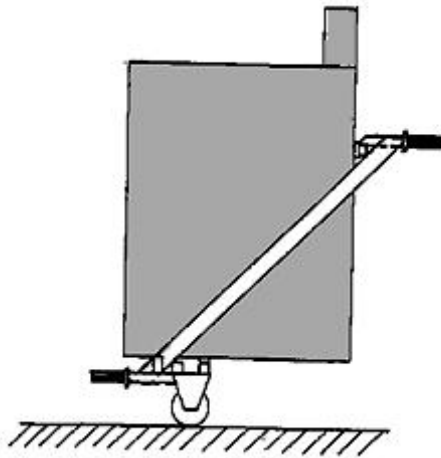
Rollers

Definition statement

This place covers:

Rollers or wheeled devices interposed between the load and the ground

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Castors, wheels	B60B 33/00
Handcarts	B62B 5/02

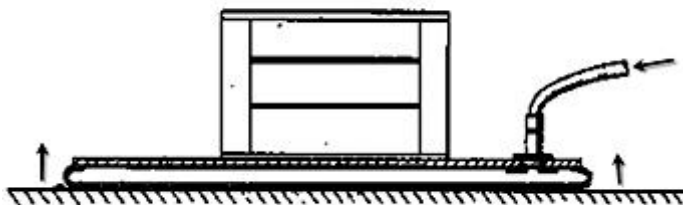
B65G 7/06

using fluid at high pressure supplied from an independent source to provide a cushion between load and ground {(conveying articles over a flat surface by jets located in the surface [B65G 51/00](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Vehicles travelling on air cushions	B60V 3/025
Air bearings	F16C 32/06

B65G 7/08

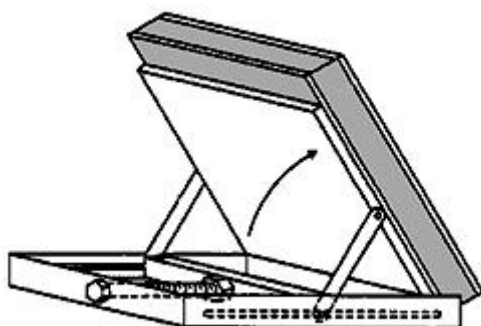
for tilting the loads

Definition statement

This place covers:

Device interposed between the load and the ground for tilting the load. The article is usually stationary and is engagable by the device, gripping is not excluded but is not pick and place. What is important is that the device comes under the article.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Tilting and emptying containers)	B65G 65/23
Tiltable platforms	B66F 7/22

B65G 7/10

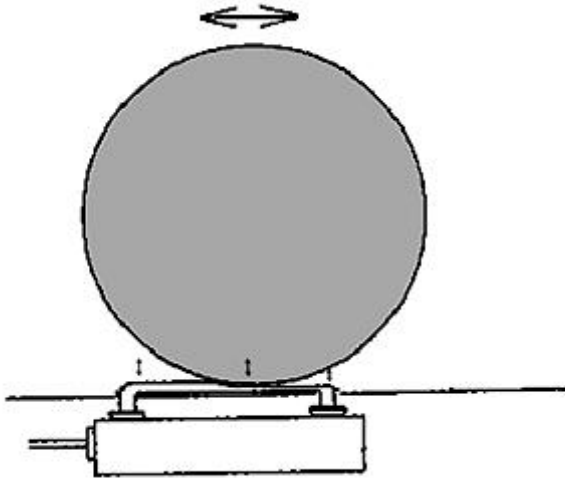
for rolling cylindrical loads

Definition statement

This place covers:

Device used for rolling the cylindrical load which is stationary. These devices can push, pull, enter in a hole in the load to engage it, lift it and use its inertia, etc.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Shifting railway cars	B61J 3/10 , B61J 3/12
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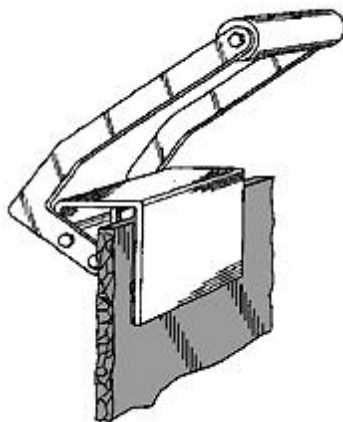
B65G 7/12

Load carriers, e.g. hooks, slings, harness, gloves, modified for load carrying

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Carrying means for fragile (glass) sheets	B65G 49/061
Game (dead animals) carriers),	A01M 31/006
Carrying straps, harnesses	A45F 3/14
Holders or carriers for hand articles	A45F 5/00
Stretcher for disabled persons	A61G 5/006
Hand held gripping tools	B25B 9/00
Handles, holders for small containers	B65D 25/28
Hand-held carriers for reels	B65H 75/406
Lifting devices for manhole covers),	B66F 19/005
Handling tools for building elements	E04G 21/16
Bricks holders	E04G 21/1808

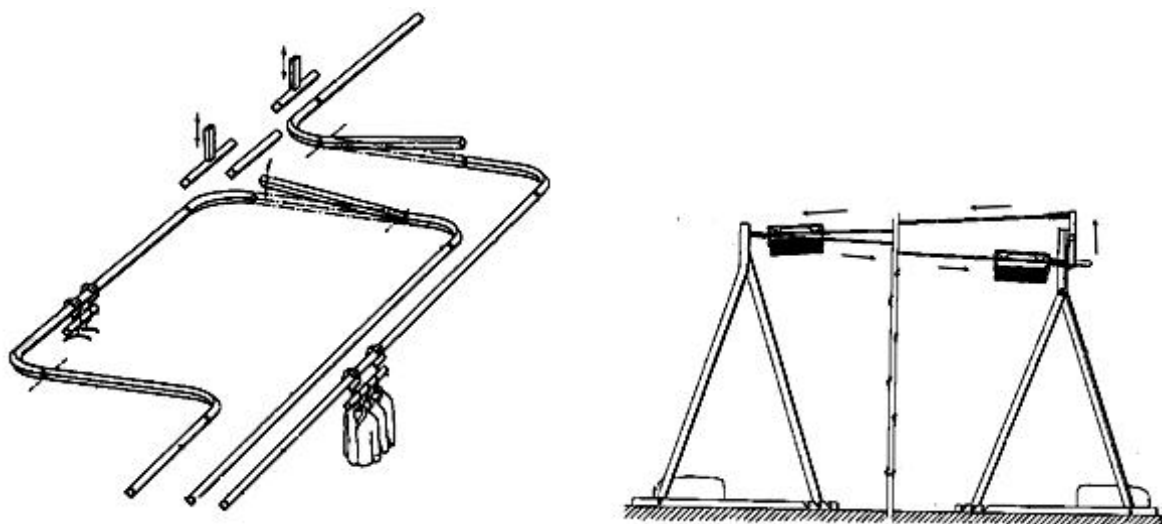
B65G 9/00

Apparatus for assisting manual handling having suspended load-carriers movable by hand or gravity

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Manually-operated endless-rope or chain conveyors	B65G 17/00
Handling clothing hangers	A47G 25/1442

Railway Systems	B61B
Monorail railway systems	B61B 13/04
Supplying bobbins with overhead conveying systems	D01H 9/182
Handling laundry	D06F 95/00

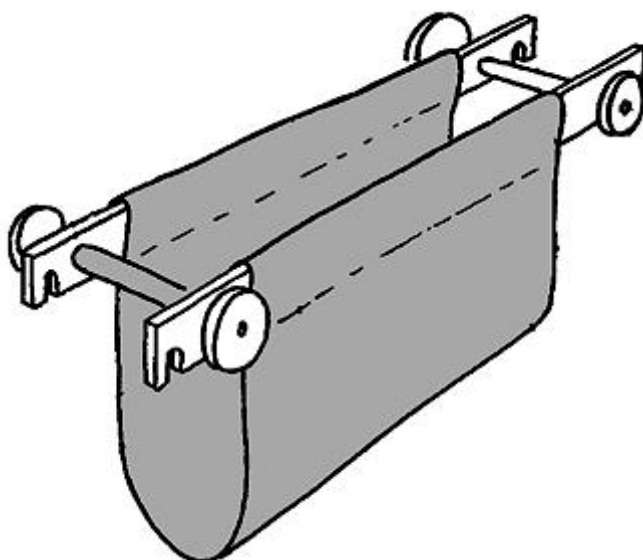
B65G 9/002

{Load-carriers, rollers therefor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rollers	B65G 39/00
Suspended vehicles, trolleys	B61B 10/022
Guiding rollers	F16C 13/006

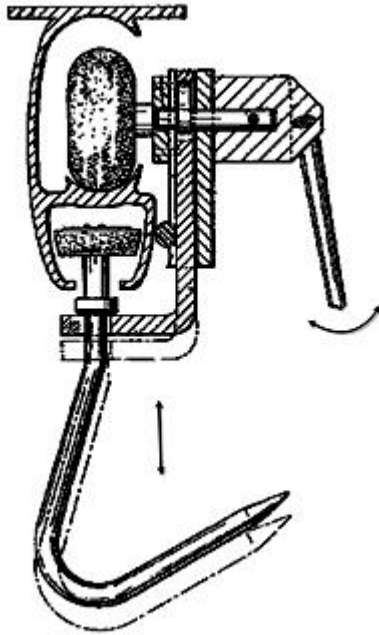
B65G 9/004

{Loading or unloading arrangements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 9/006

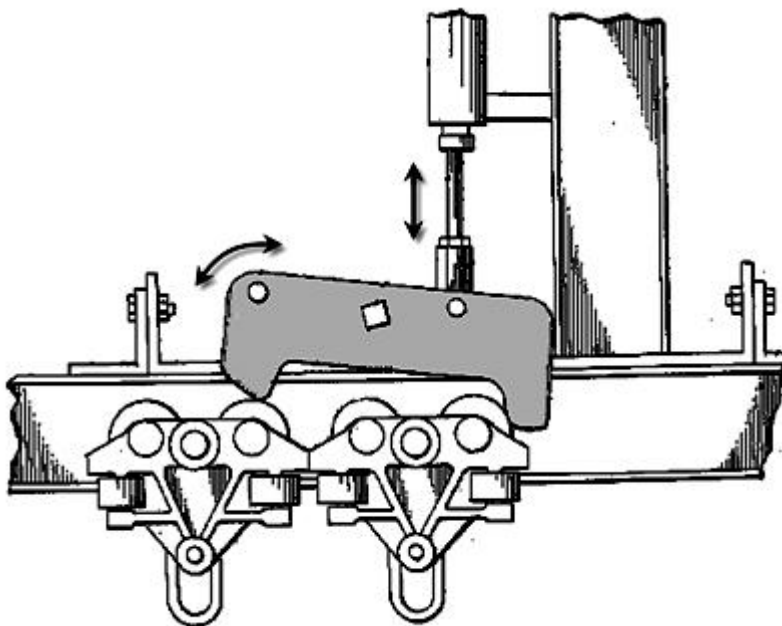
{Arresting, braking or escapement means}

Definition statement

This place covers:

Arresting means for loading/unloading purposes

Illustrative example of subject matter classified in this group:



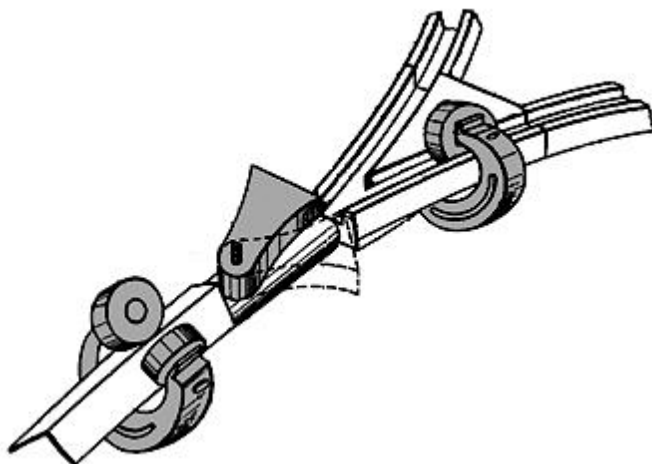
B65G 9/008

{Rails or switches}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

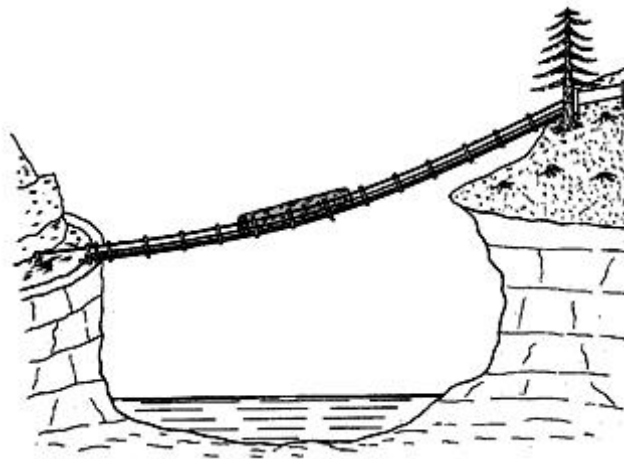
Attention is drawn to the following places, which may be of interest for search:

Rails	E01B 5/00
Switches	E01B 7/00

B65G 11/00**Chutes (used as storage devices [B65G 1/02](#))****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Used as storage devices	B65G 1/02
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Transferring bulk to several conveyors	B65G 47/72
For sports, games, or amusements	A63G 21/00
For refuse disposal in buildings	E04F 17/12

Informative references

Attention is drawn to the following places, which may be of interest for search:

Chutes comprising a driven conveyor	B65G 37/00
Slides for plane evacuation	A62B 1/20
Discharging chutes for cement	B28C 5/4248
Hoppers, i.e. containers having funnel-shaped discharge sections	B65D 88/26
Switches	E01B 7/00

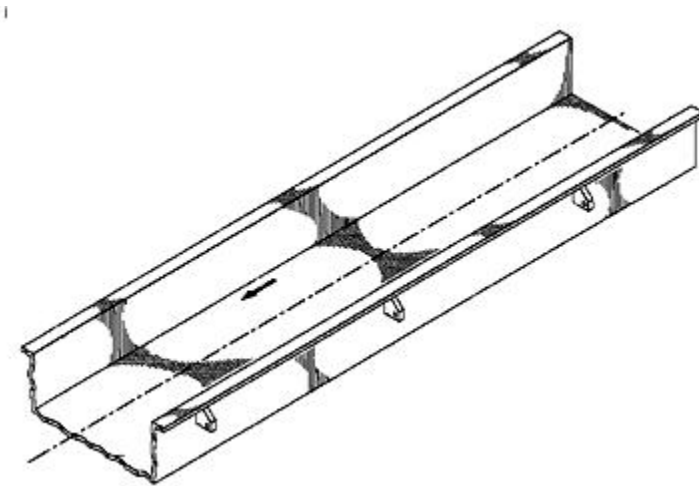
B65G 11/02

of straight form

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



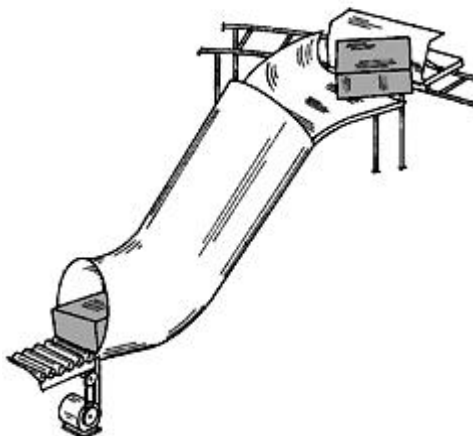
B65G 11/023

{for articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



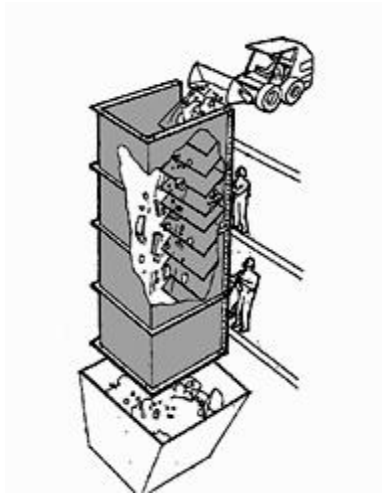
B65G 11/026

{for bulk}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



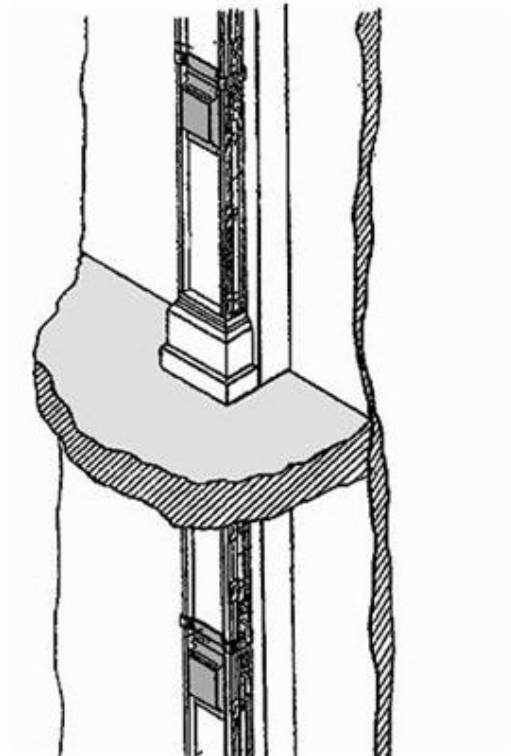
B65G 11/04

for mail in buildings

Definition statement

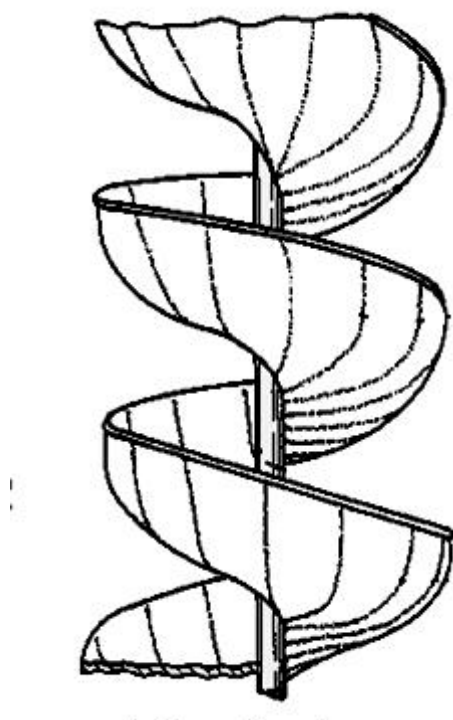
This place covers:

Illustrative example of subject matter classified in this group:



B65G 11/06**of helical or spiral form****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

For discontinuous spiral chutes	B65G 11/083
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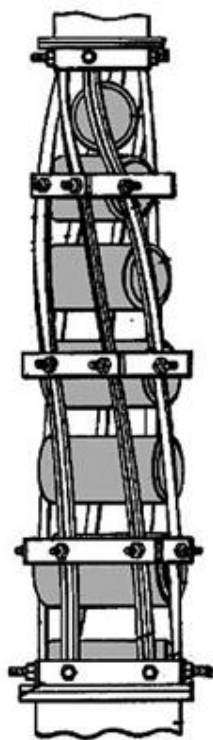
B65G 11/063

{for articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



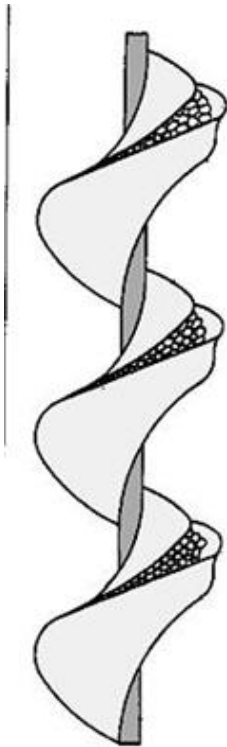
B65G 11/066

{for bulk}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 11/081

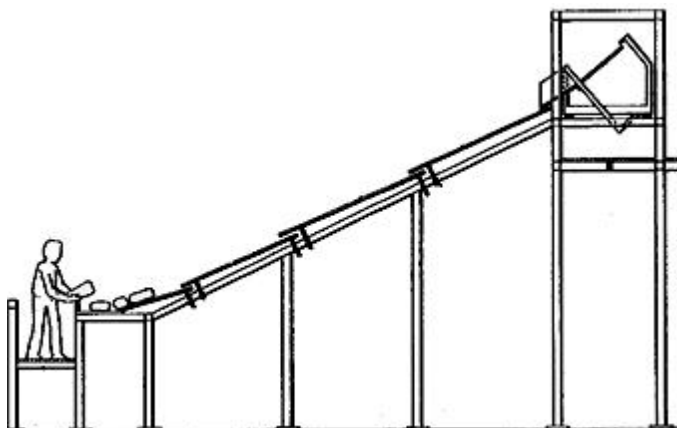
{for articles ([B65G 11/085](#) takes precedence)}

Definition statement

This place covers:

Discrete articles have usually different inherent features than those for bulk (powdery, ore, etc) material

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

With zig-zag formations	B65G 11/085
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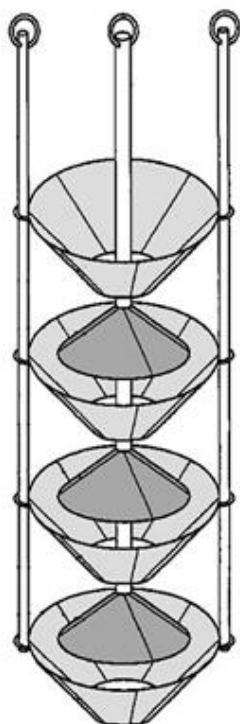
B65G 11/083

{for bulk ([B65G 11/085](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

With zig-zag formations	B65G 11/085
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Informative references

Attention is drawn to the following places, which may be of interest for search:

For bulk	B65G 11/146
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B65G 11/086

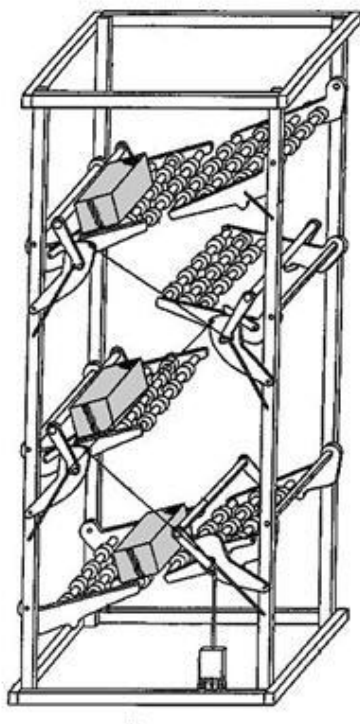
{for articles}

Definition statement

This place covers:

Chutes conveying discrete articles have usually different inherent features than those for bulk (powdery, ore, etc) material.

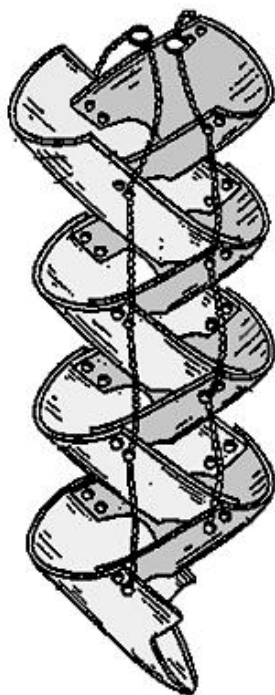
Illustrative example of subject matter classified in this group:



B65G 11/088**{for bulk}****Definition statement***This place covers:*

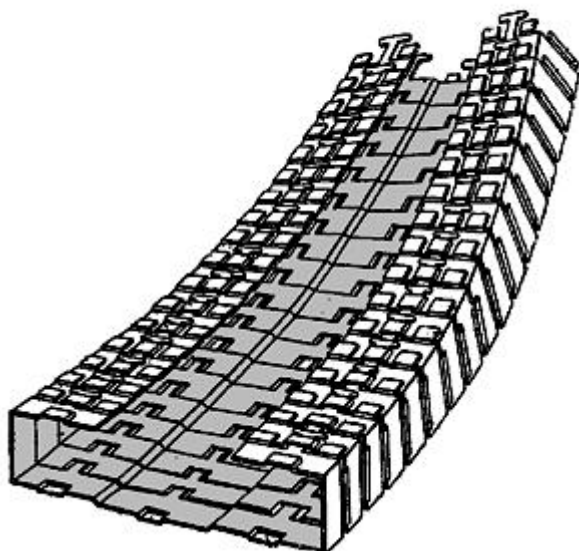
Chutes conveying bulk (powdery, ore, etc) material have usually different inherent features than those for discrete articles like packages.

Illustrative example of subject matter classified in this group:

**B65G 11/103****{for articles}****Definition statement***This place covers:*

Chutes conveying discrete articles have usually different inherent features than those for bulk (powdery, ore, etc) material.

Illustrative example of subject matter classified in this group:



B65G 11/106

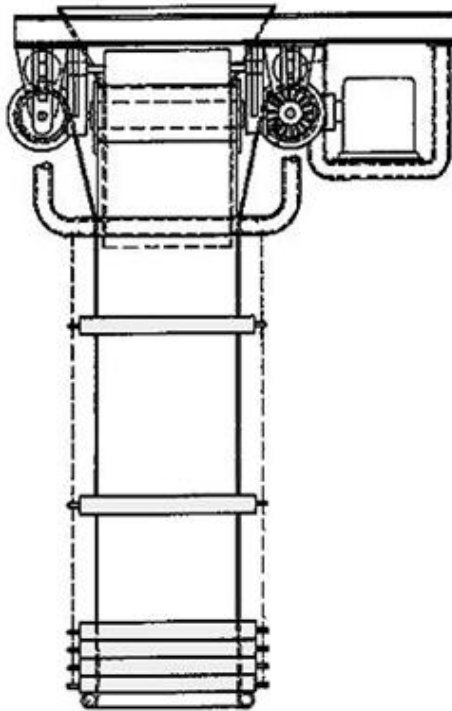
{for bulk}

Definition statement

This place covers:

Chutes conveying bulk (powdery, ore, etc) material have usually different inherent features than those for discrete articles like packages.

Illustrative example of subject matter classified in this group:



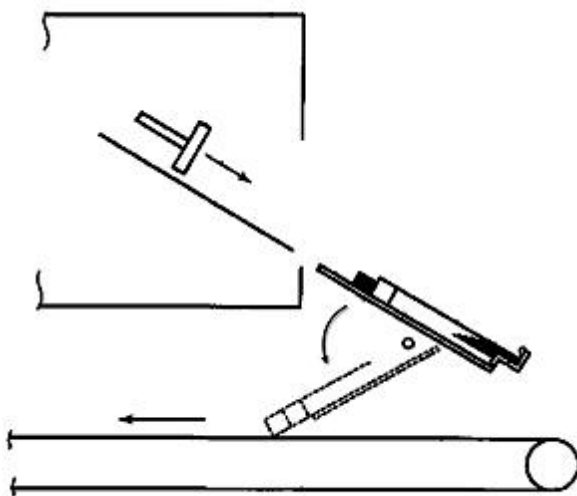
B65G 11/123

{for articles}

Definition statement

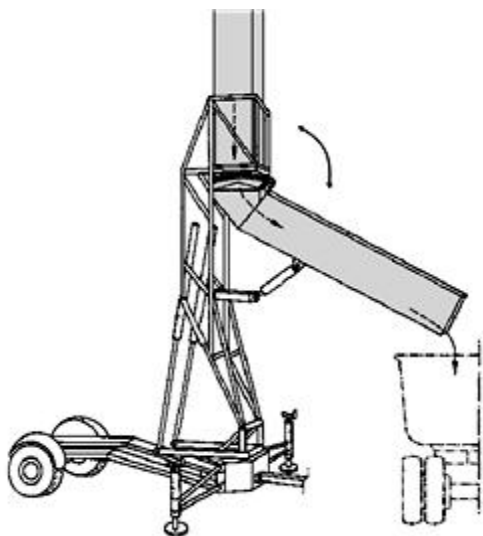
This place covers:

Illustrative example of subject matter classified in this group:



B65G 11/126**{for bulk}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

With discontinuous guiding surfaces	B65G 11/083
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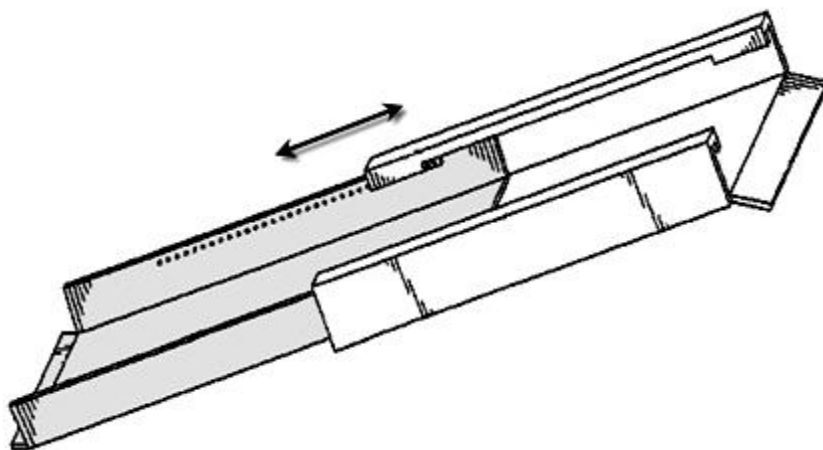
B65G 11/143

{for articles}

Definition statement

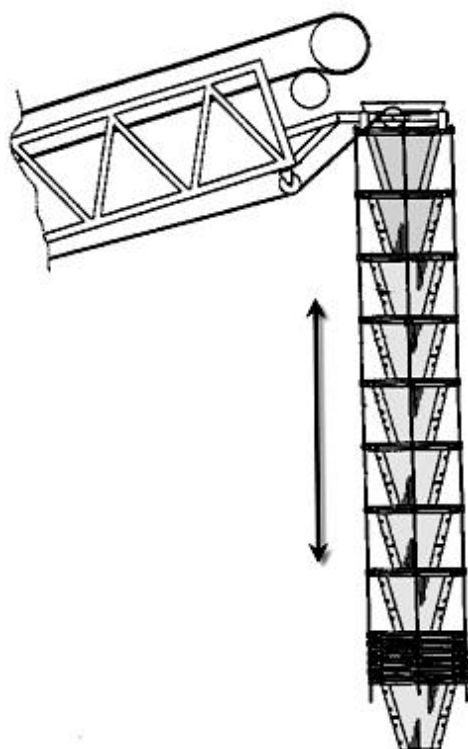
This place covers:

Illustrative example of subject matter classified in this group:



B65G 11/146**{for bulk}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

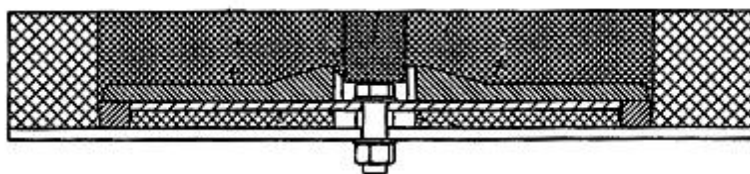
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Not adjustable	B65G 11/083
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B65G 11/16**Interior surfaces; Linings****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

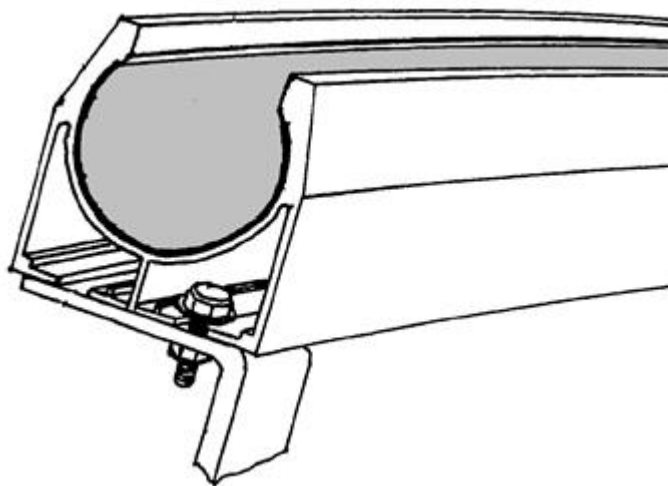
**B65G 11/163**

{for articles}

Definition statement

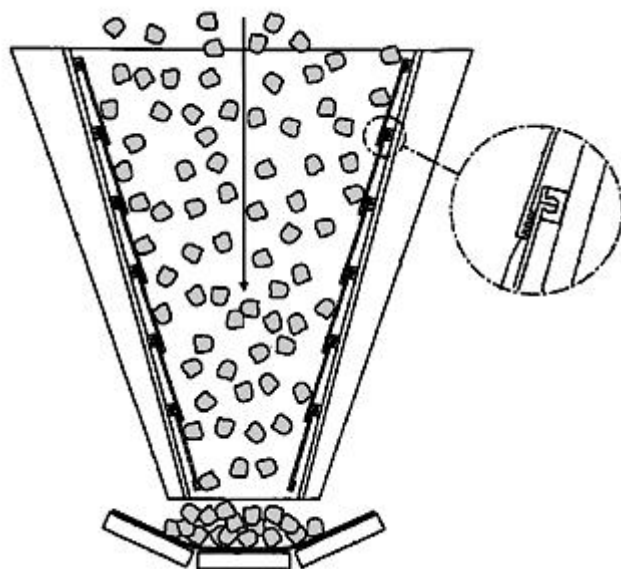
This place covers:

Illustrative example of subject matter classified in this group:

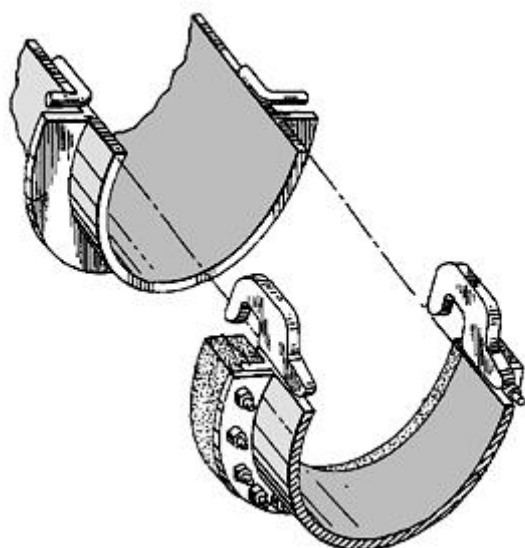


B65G 11/166**{for bulk}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 11/183****{for articles}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



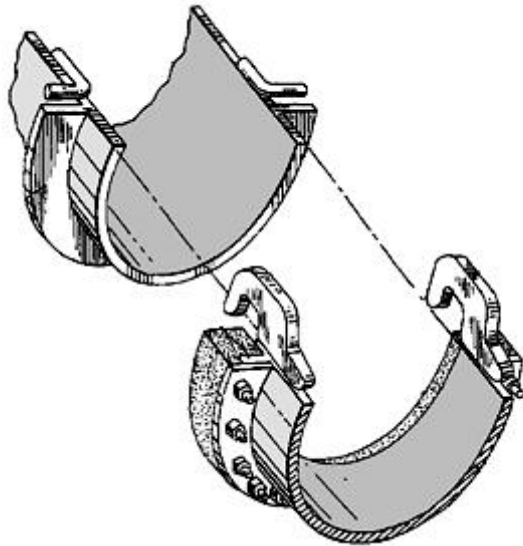
B65G 11/186

{for bulk}

Definition statement

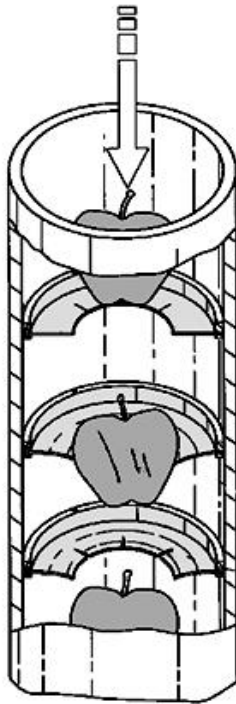
This place covers:

Illustrative example of subject matter classified in this group:



B65G 11/203**{for articles}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

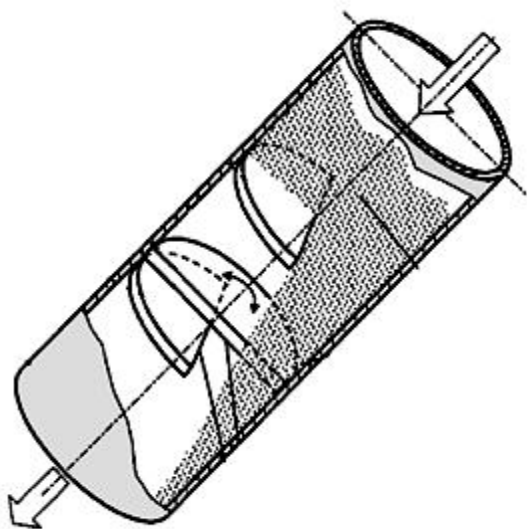
Pivotable switches	B65G 47/71
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Preventing damage to the goods or materials	B65G 69/16
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B65G 11/206**{for bulk}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Pivotable switches	B65G 47/72
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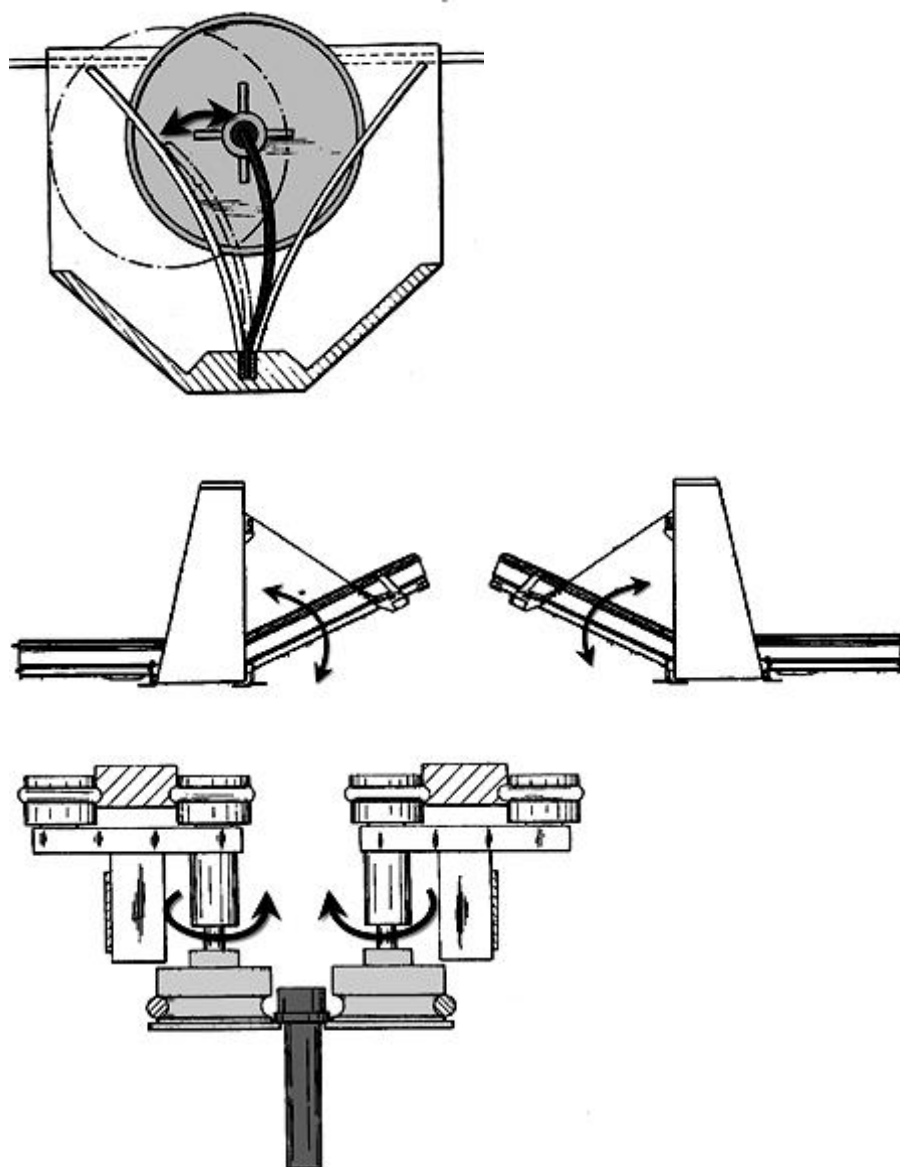
B65G 13/00

Roller-ways (storage devices comprising roller-ways [B65G 1/02](#); endless-chain conveyors comprising load-supporting rollers [B65G 17/00](#); rollers or arrangements thereof [B65G 39/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Storage devices comprising roller-ways	B65G 1/02
Endless-chain conveyors comprising load-supporting rollers	B65G 17/00

Rollers or arrangements thereof	B65G 39/00
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

In metal-rolling equipment	B21B 39/00 , B21B 41/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Pivoting part(s) to permit passage of people	B65G 21/00
Articles conveyed in the gap between two horizontal and parallel rollers	B65G 35/00
Feeding timber with pressure rollers	B27B 25/02
Castors	B60B 33/00
Rollers in vehicles	B60P 1/52
Transporting glass sheets with rollers	C03B 35/16
Rollers in general	F16C 13/00
Roller conveyors for ovens	F27B 9/2407

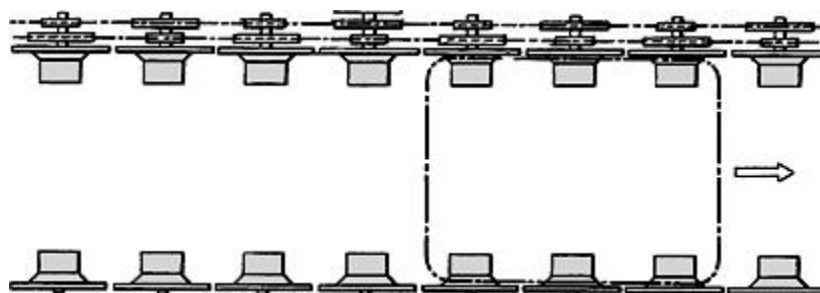
B65G 13/02

having driven rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Roller-ways having all rollers driven	B65G 13/04
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Driven drums	B65G 23/04
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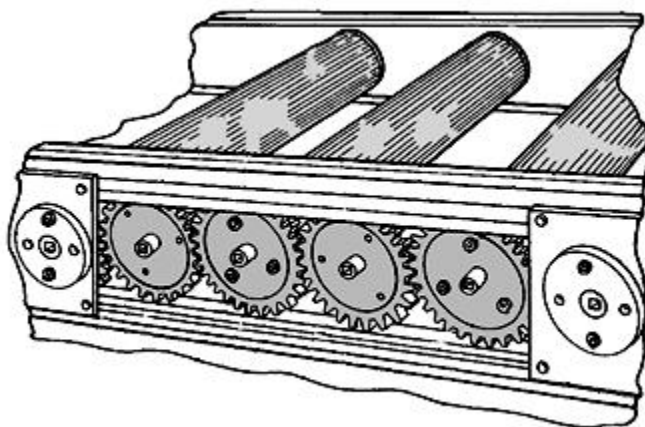
B65G 13/04

all rollers driven

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 13/06**

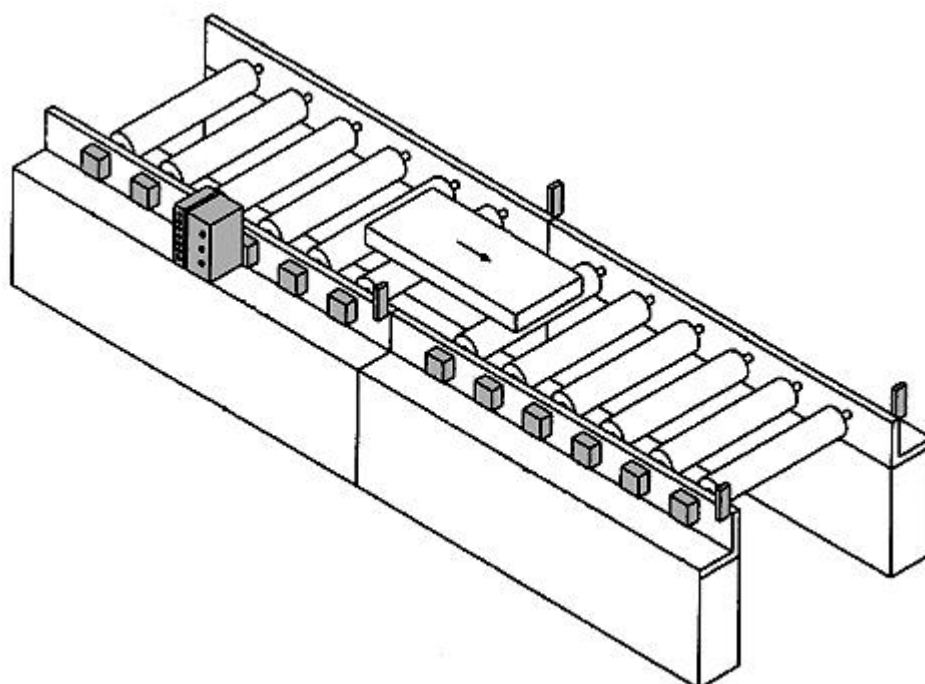
Roller driving means

Definition statement

This place covers:

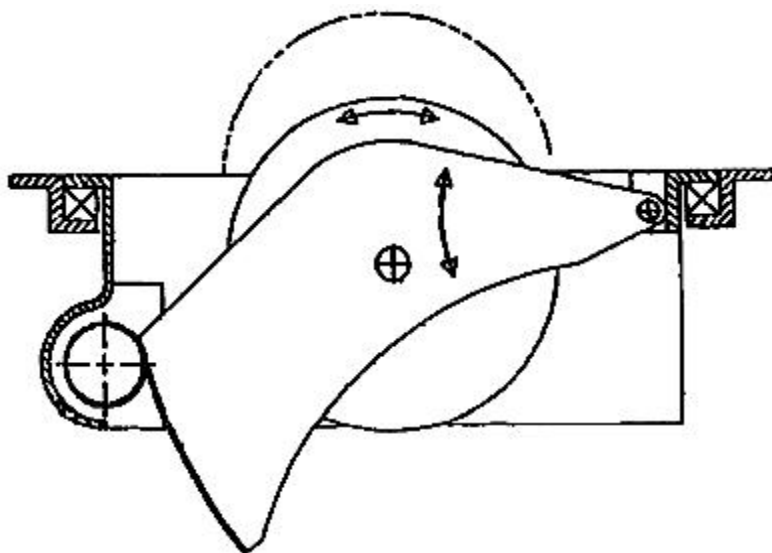
Control of the drive

Illustrative example of subject matter classified in this group:



B65G 13/065**{with displacement of the roller}****Definition statement***This place covers:*

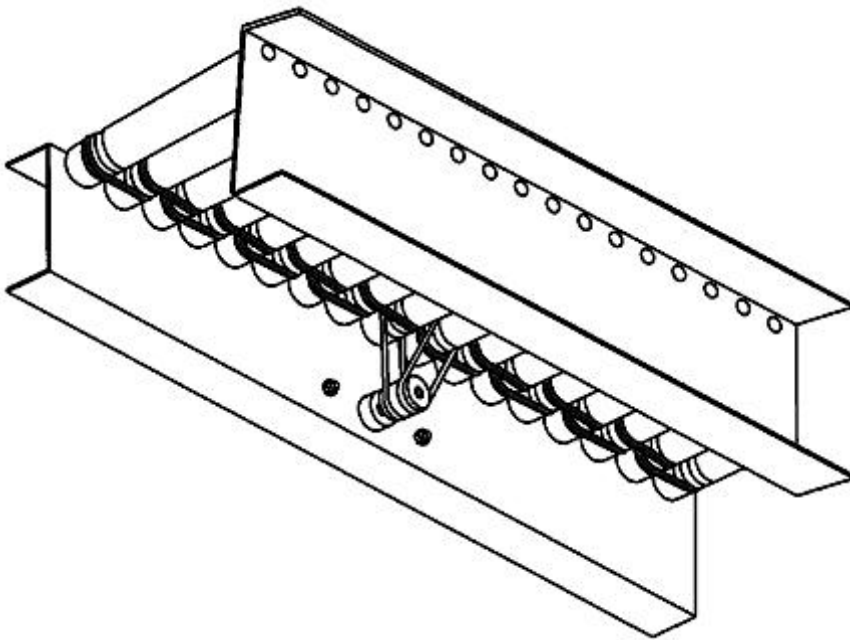
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

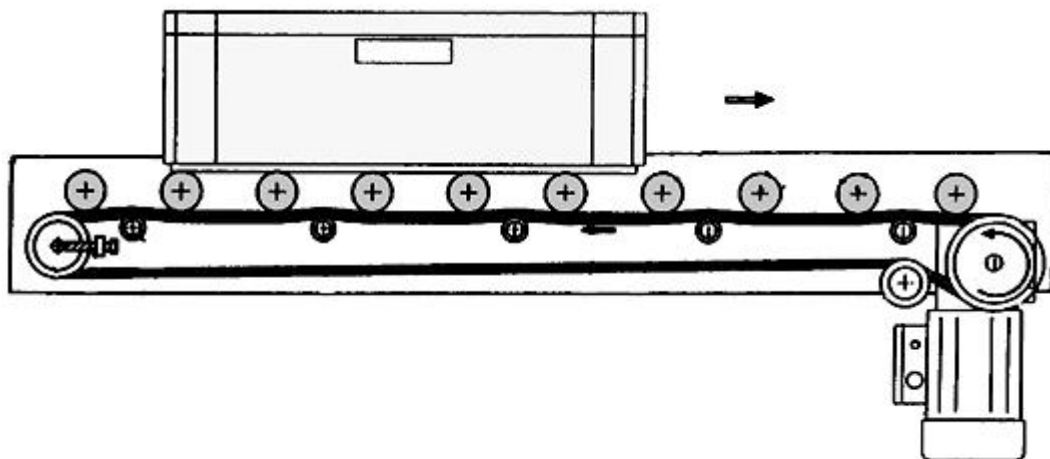
Roller-ways for handling freight for aircrafts	B64D 9/00
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B65G 13/07**having endless driving elements****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

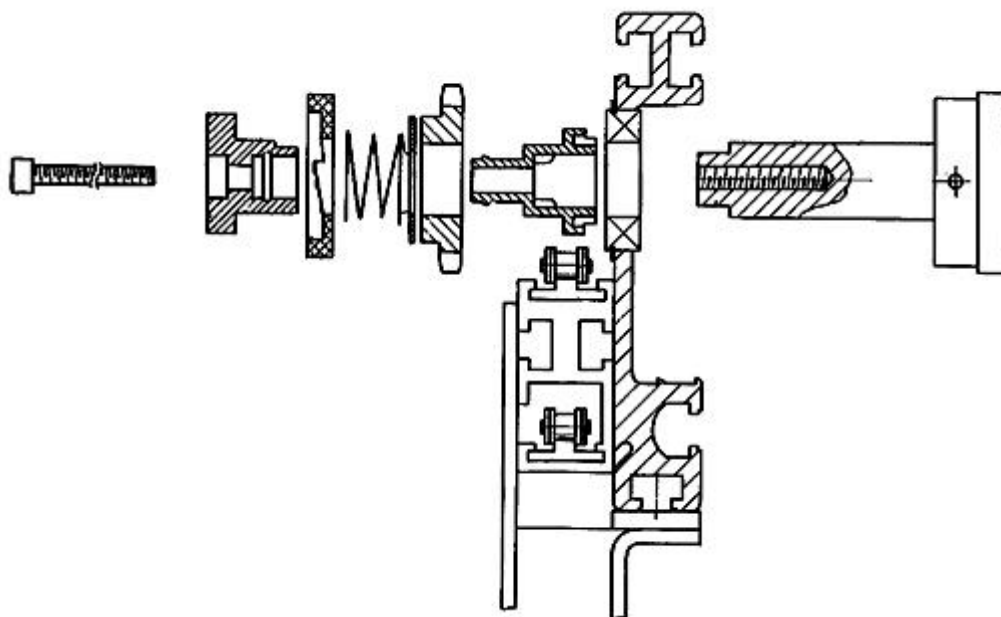
**B65G 13/071****with frictional engagement****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



B65G 13/073**comprising free-wheel gearing****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

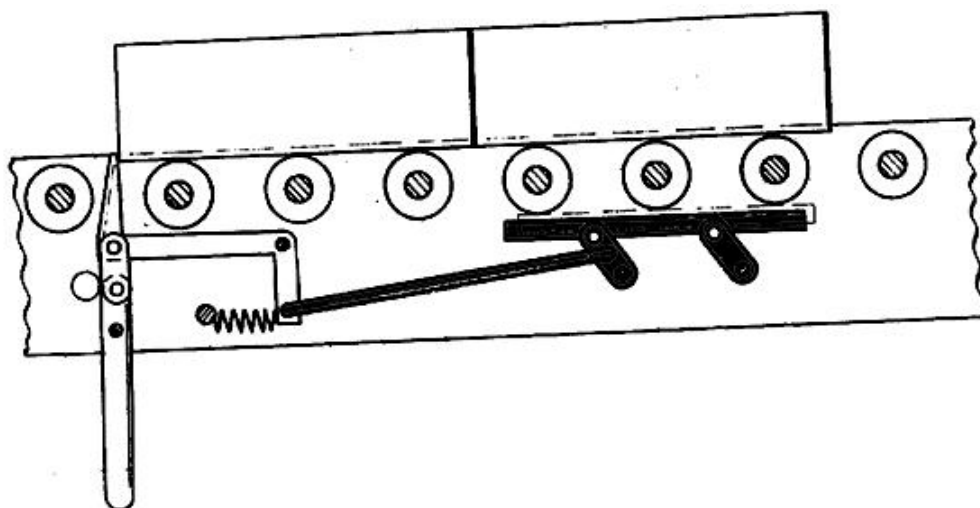
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Accumulating conveyor	B65G 47/263
Slip couplings	F16D 7/00
Freewheels	F16D 41/00

B65G 13/075**Braking means****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

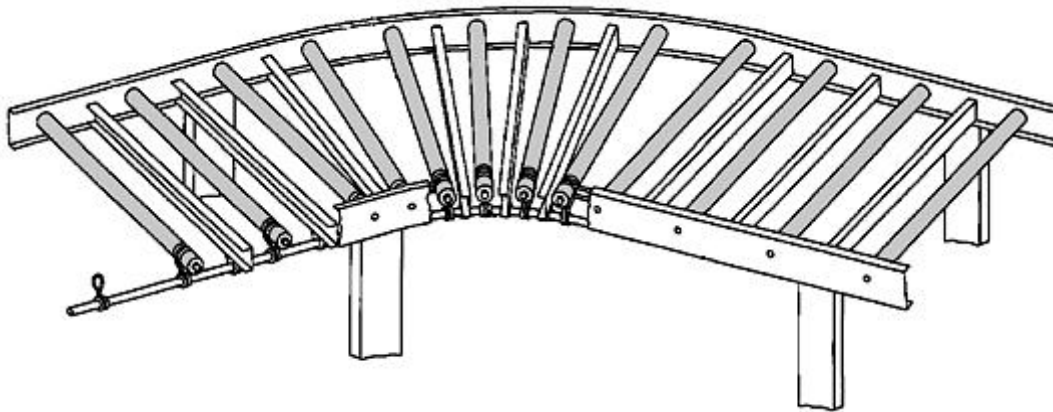
**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Stopping articles	B65G 47/88
Braking devices for metal-rolling mills	B21B 39/12
Braking devices in cooling bed conveyors	B21B 43/00
Brakes for sheet material conveyors	B65H 29/68
Brakes	F16D

B65G 13/08**of curved form; with branch-offs****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

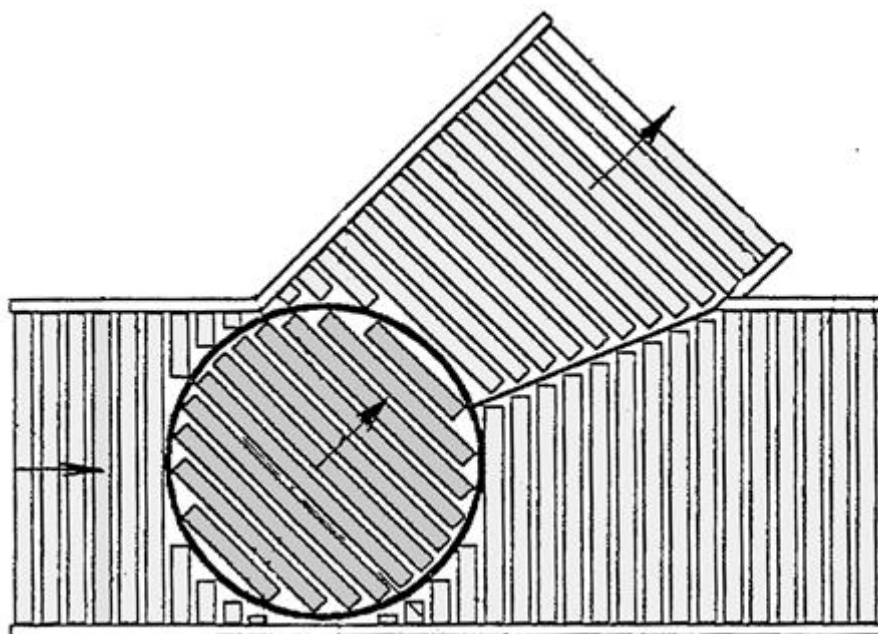
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Curved path conveyors	B65G 21/18 , B65G 21/16
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B65G 13/10**Switching arrangements****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

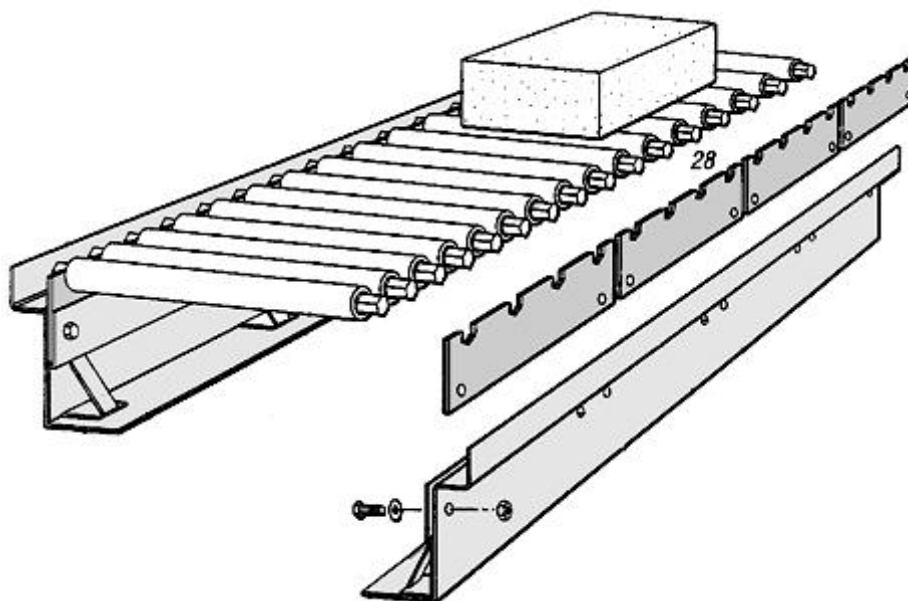
Transferring articles	B65G 47/54 , B65G 47/64 , B65G 47/71
Ball-rollers (for ball-rollers combine with omniroll)	B65G 2207/34

B65G 13/11**Roller frames****Definition statement**

This place covers:

How the frame is constructed in a roller way in general

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Racks equipped with rollers	B65G 1/023
Frames for endless conveyors	B65G 21/00
Lateral guidance means	B65G 21/2072
Mounting rollers on frames	B65G 39/12
Roller mounted on framework	B65G 39/12
Roll-stand for metal rolling mills	B21B 39/12
Undercarriages for supports with telescoping pillar	F16M 11/28

B65G 13/12

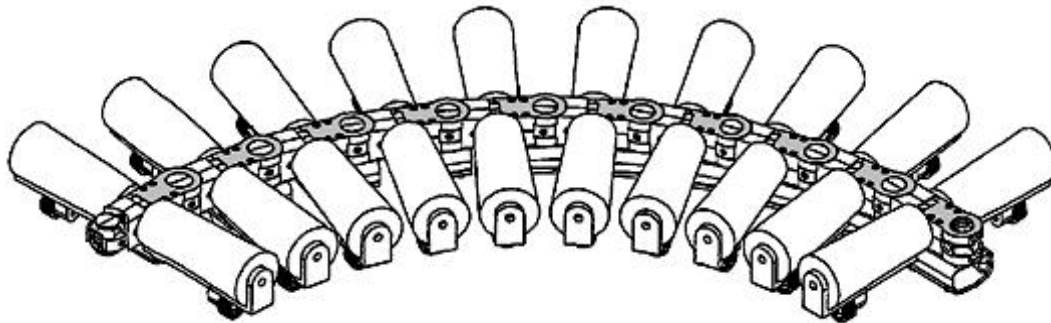
adjustable

Definition statement

This place covers:

Roller frames which can be telescopic, extending, flexible, submerging and rising, etc.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Frames with movable parts	B65G 21/10
Work or tool supports	B23Q 1/40
Loading station for presses	B30B 15/028

B65G 15/00

Conveyors having endless load-conveying surfaces, i.e. belts and like continuous members, to which tractive effort is transmitted by means other than endless driving elements of similar configuration (having load-conveying surfaces formed by interconnected longitudinal links [B65G 17/06](#))

References

Limiting references

This place does not cover:

Having load-conveying surfaces formed by interconnected longitudinal links	B65G 17/06
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with conveyors	B65G 47/00
Loading or unloading	B65G 65/00
Advertising elements	B65G 2207/04
Weighing belt conveyors	G01G 11/00
Advertisement on belts	G09F 19/22 , G09F 11/12

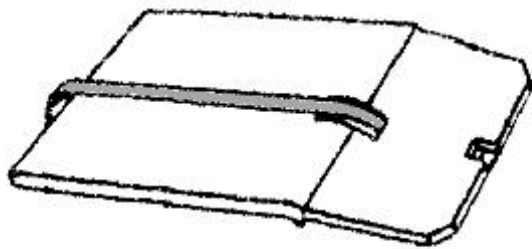
B65G 15/005

{the surface being formed by one rope}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



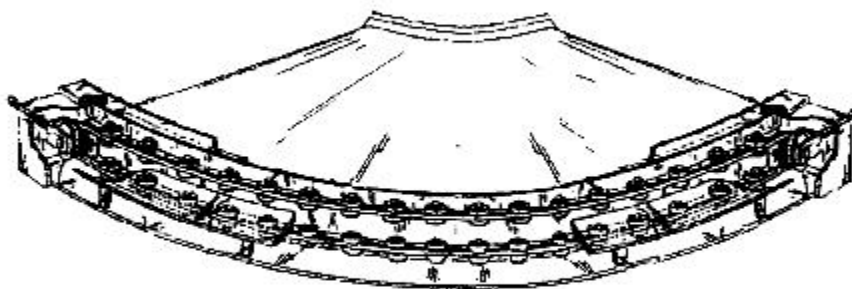
B65G 15/02

for conveying in a circular arc

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



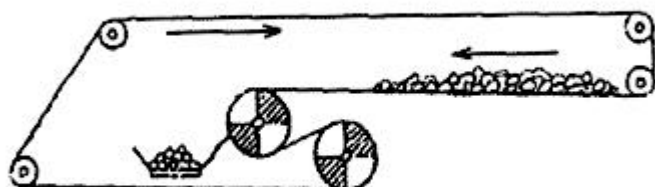
B65G 15/04

the load being carried on the lower run of the endless surface

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

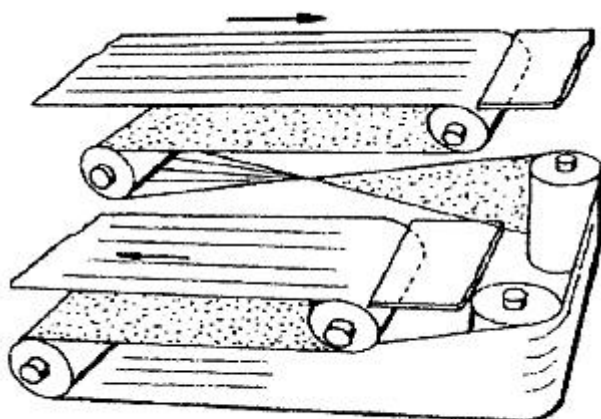
**B65G 15/06**

with oppositely-moving parts of the endless surface located in the same plane and parallel to one another

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



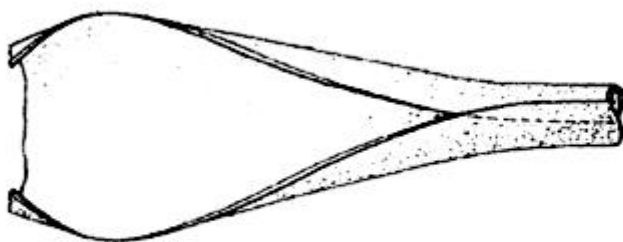
B65G 15/08

the load-carrying surface being formed by a concave or tubular belt, e.g. a belt forming a trough

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

For the structure of the belt	B65G 15/40
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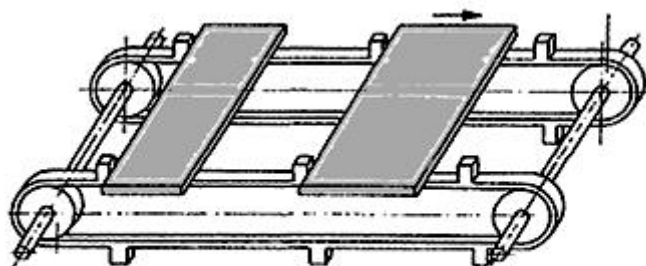
B65G 15/10

comprising two or more co-operating endless surfaces with parallel longitudinal axes, or a multiplicity of parallel elements, e.g. ropes defining an endless surface

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



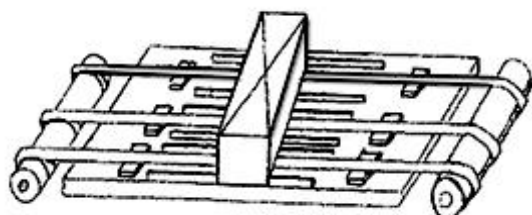
B65G 15/105

{the surface being formed by two or more ropes}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

With two or more belts	B65G 15/50
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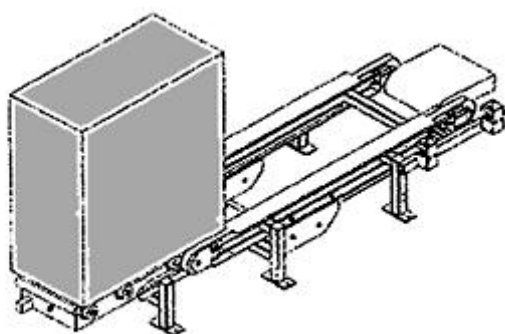
B65G 15/12

with two or more endless belts

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 15/14

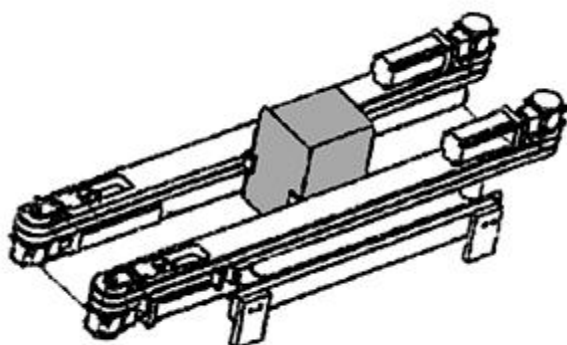
the load being conveyed between the belts {([B65G 15/18](#), [B65G 15/20](#) take precedence)}

Definition statement

This place covers:

If one belt is removed the system does not function, i.e. object can not be conveyed anymore.

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Conveyors having endless load-conveying surfaces the belts being sealed at their edges	B65G 15/18
Conveyors for flat articles having endless load-conveying surfaces arranged side-by-side	B65G 15/20

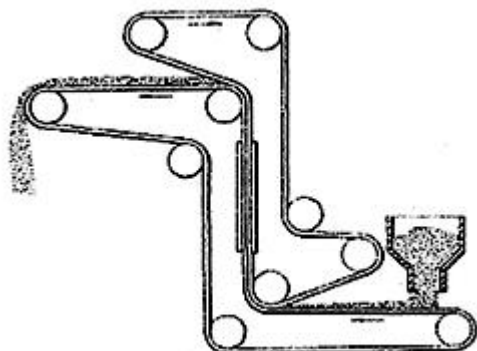
B65G 15/16

between an auxiliary belt and a main belt

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

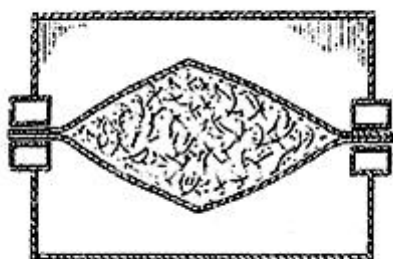
**B65G 15/18**

the belts being sealed at their edges

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Endless-surface conveyors having a single belt with sealed edges	B65G 15/08
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B65G 15/20

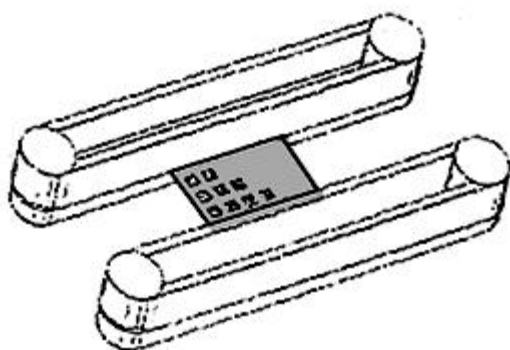
arranged side by side, e.g. for conveyance of flat articles in vertical position

Definition statement

This place covers:

Only for flat articles.

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

For other articles	B65G 15/14
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

For conveying sheets or like thin flat articles	B65H
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Informative references

Attention is drawn to the following places, which may be of interest for search:

For other articles	B65G 15/14
Between chains	B65G 37/005

Special rules of classification

For flat articles only, otherwise [B65G 15/14](#).

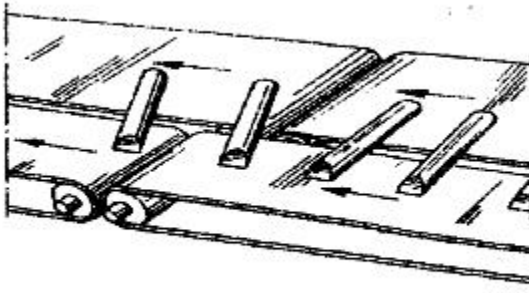
B65G 15/22

comprising a series of co-operating units

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

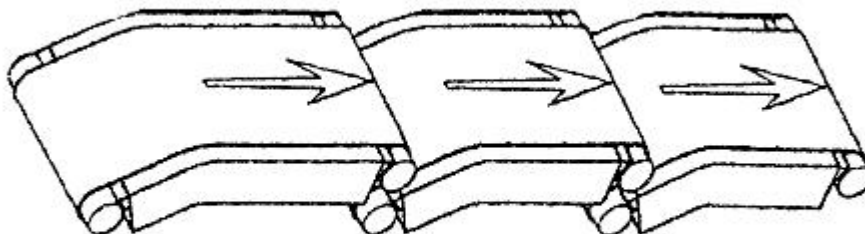
**B65G 15/24**

in tandem

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 15/26

extensible, e.g. telescopic {(adjustment of length or configuration of load-carrier [B65G 21/14](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 15/30**

Belts or like endless load-carriers (co-operating with rails or the like [B65G 21/22](#); {co-operating} with rollers [B65G 39/20](#))

References**Limiting references**

This place does not cover:

Co-operating with rails or the like	B65G 21/22
With rollers	B65G 39/20

Informative references

Attention is drawn to the following places, which may be of interest for search:

Driving belts in general	F16G
Belt fastenings (joining the two ends of a belt)	F16G 3/00

B65G 15/32**made of rubber or plastics****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Manufacture of rubber/plastic belts	B29C 33/00 , B29D 29/00
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B65G 15/34**with reinforcing layers, e.g. of fabric****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Woven fabrics	D03D
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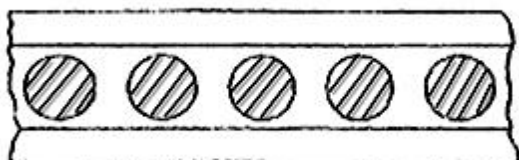
B65G 15/36

the layers incorporating ropes, chains, or rolled steel sections

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 15/38**

with flame-resistant layers, e.g. of asbestos, glass

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

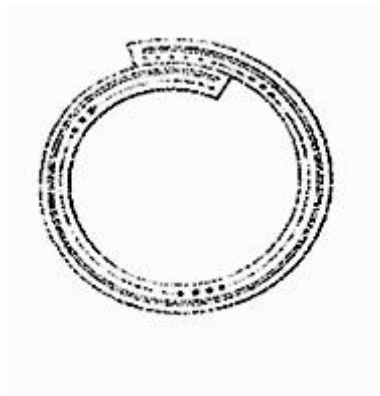
**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

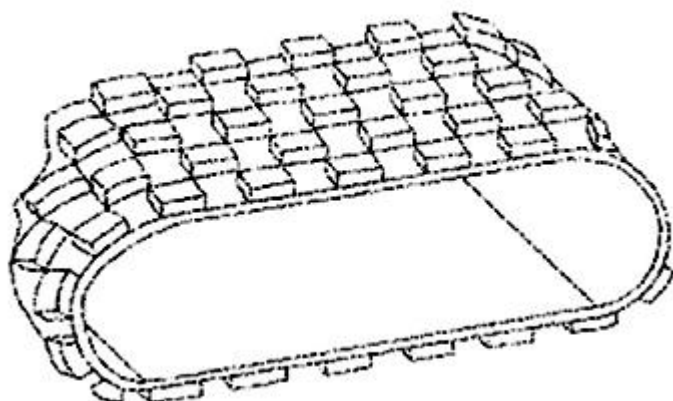
Belts for ovens, furnaces	F27B 9/243
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B65G 15/40**troughed or tubular; formed with joints facilitating troughing****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 15/42****having ribs, ridges, or other surface projections****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Conveyors for impelling the loads	B65G 15/44
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Toothed belt	B65G 15/64
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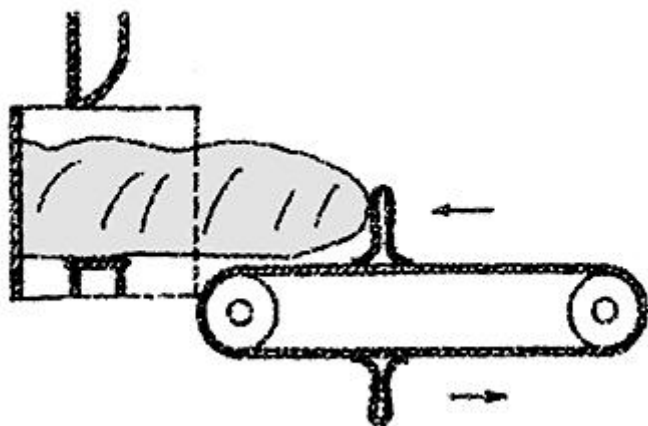
B65G 15/44

for impelling the loads

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



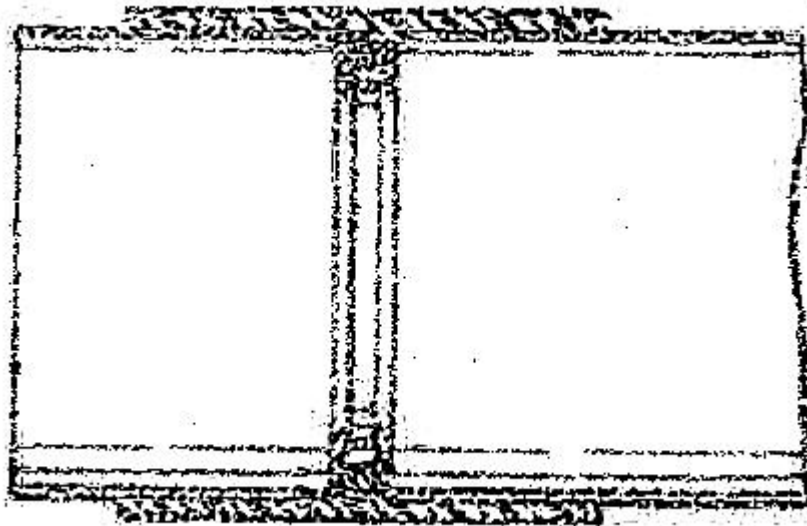
B65G 15/46

formed with guides

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



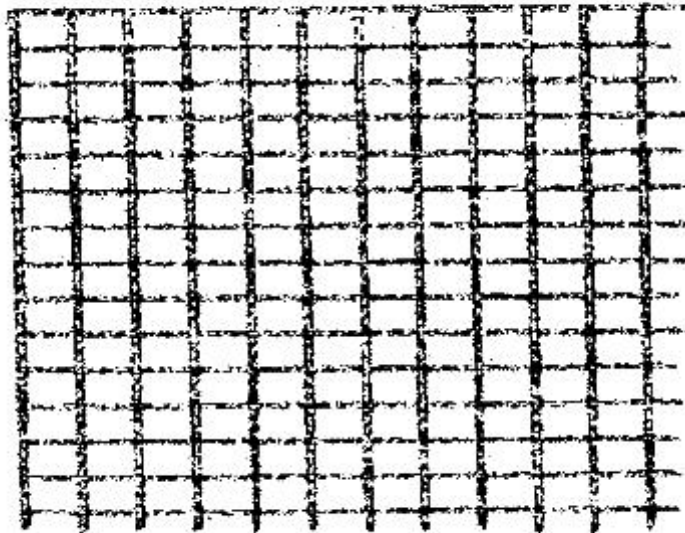
B65G 15/48

metallic

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



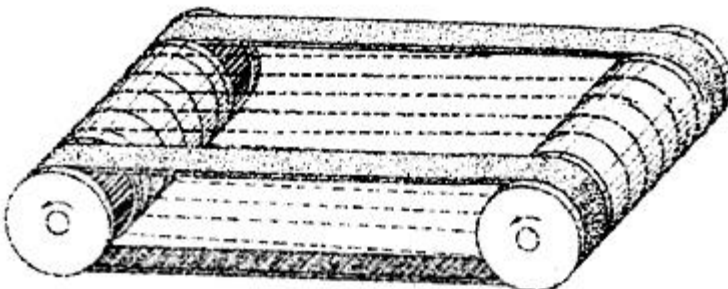
B65G 15/50

Endless load-carriers consisting of a series of parallel ropes or belt strips

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Parallel ropes	B65G 15/105
Parallel belts building a common surface (otherwise)	B65G 15/12

B65G 15/52

interconnected by transverse slats

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

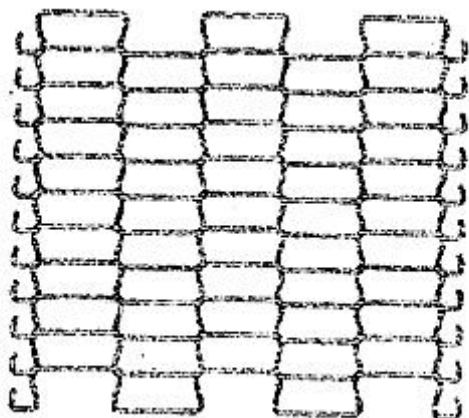
Limiting references

This place does not cover:

Harvesting machines	A01D 17/00
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B65G 15/54**Endless load-carriers made of interwoven ropes or wires****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 15/56****with edge-protecting or reinforcing means****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

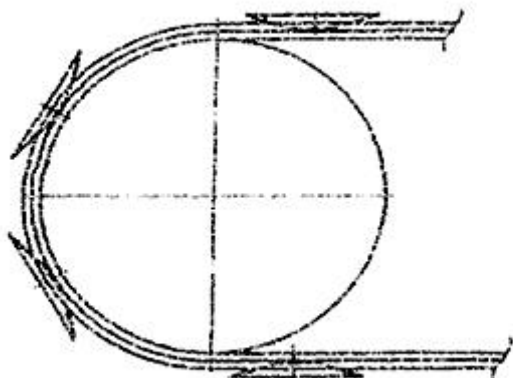
**B65G 15/58****with means for holding or retaining the loads in fixed position, e.g. magnetic****Definition statement***This place covers:*

Also for belts with suction cups when the vacuum is created by each suction cup.

"Fixed" position requires that there is no movement of the load at all.

Definition statement

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

"Ridges" that hold an article	B65G 15/42
Load carriers resting on the traction element (chain or chain pair), with means for lifting the load carrier from the chain and stopping temporarily the movement of the load carrier.	B65G 17/002
Suction retaining means (vacuum is created in plenum by the belt surface)	B65G 21/2027

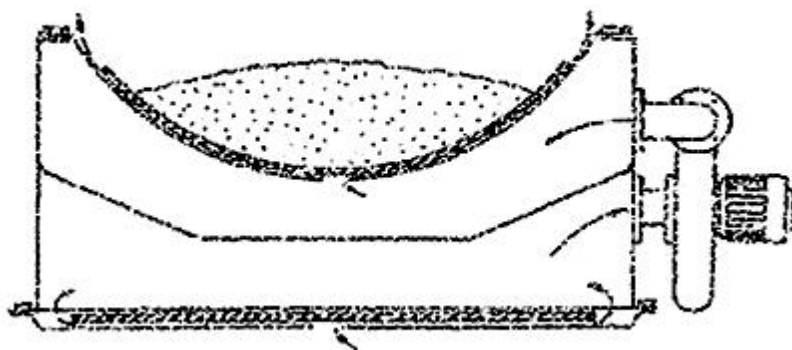
B65G 15/60

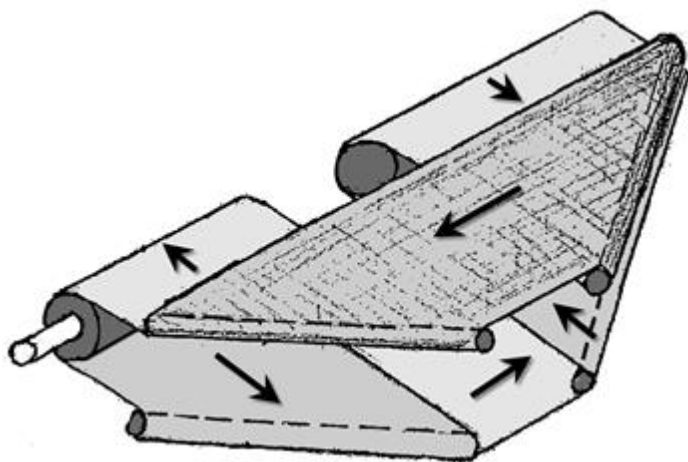
Arrangements for supporting or guiding belts, e.g. by fluid jets

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Construction of rollers or supports thereof	B65G 39/00
Rollers mounted on framework	B65G 39/12
Rolls, drums, discs, or the like	F16C 13/00

B65G 15/62

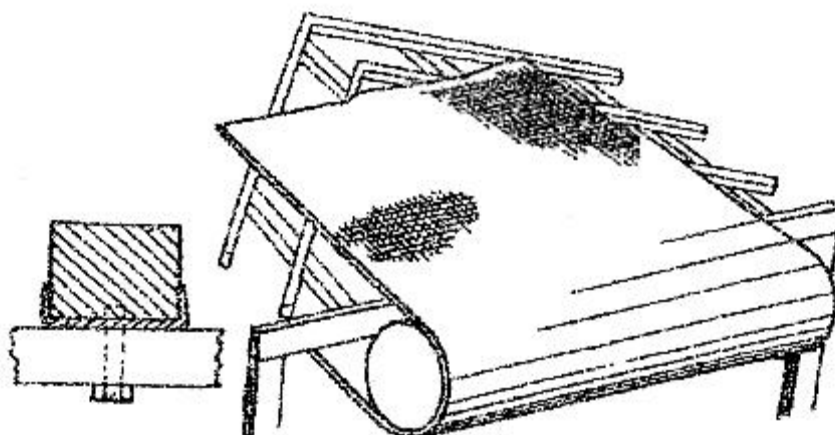
Guides for sliding belts

Definition statement

This place covers:

When the belt is sliding on the support (no rollers)

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Absorbing impacts in the way of the bulk feeder	B65G 21/2081
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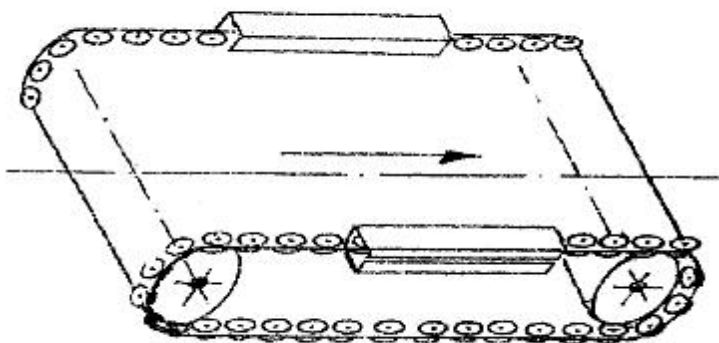
B65G 15/64

for automatically maintaining the position of the belts

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

By means of rollers	B65G 39/16
Toothed belt wheels	F16H 55/171

B65G 17/00

Conveyors having an endless traction element, e.g. a chain, transmitting movement to a continuous or substantially-continuous load-carrying surface or to a series of individual load-carriers; Endless-chain conveyors in which the chains form the load-carrying surface

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Escalators or paternosters neither combined nor associated with loading or unloading apparatus	B66B 9/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Conveyors comprising an impeller or a series of impellers carried by an endless traction element and arranged to move articles or materials over a supporting surface or underlying material	B65G 19/00
Feeding or discharging conveyors by devices incorporated in, or operatively associated with conveyors	B65G 47/00
Loading or unloading	B65G 65/00
Advertising	B65G 2207/04
Devices controlling the relative position of articles	B65G 2811/061 - B65G 2811/0668 , B65G 2812/02267 - B65G 2812/02277
Chains, cables or the like	B65G 2812/02326 - B65G 2812/02396
With load-carrying surfaces supported by traction means	B65G 2812/02415 - B65G 2812/02683
Bucket elevators for bulk material	B65G 2812/02742 - B65G 2812/02851
Tools for repairing chains	B21L 21/00
Railway systems, detachable load-carriers on rails	B61B
Escalators or paternosters neither combined nor associated with loading or unloading apparatus	B66B 9/00

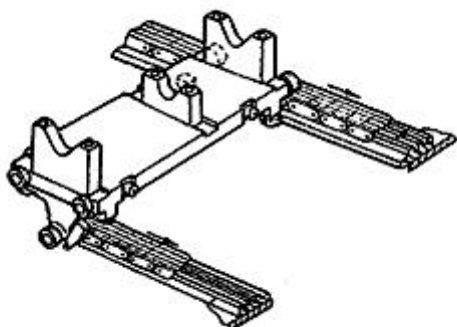
B65G 17/002

{comprising load carriers resting on the traction element}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Kinds of mechanical conveyors comprising a load-carrier moving along a path	B65G 35/06
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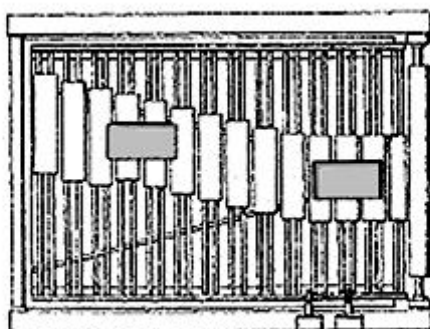
B65G 17/005

{comprising individual load carriers which are movably mounted ([B65G 17/16](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Devices having endless travelling belts or chains equipped with article-engaging elements	B65G 47/841
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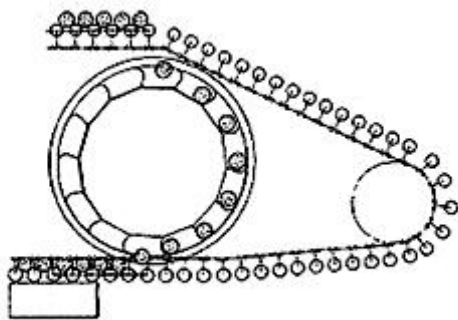
B65G 17/007

{for conveying the load on the lower run or on both upper and lower runs of the conveyor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



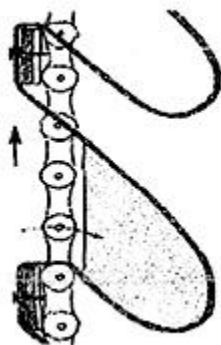
B65G 17/04

the belt having loops forming load-receiving pockets

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



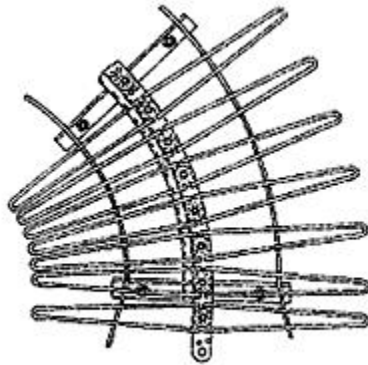
B65G 17/061

{the load carrying surface being formed by profiles, rods, bars, rollers or the like attached to a single traction element ([B65G 17/24](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

A series of rollers which are moved	B65G 17/24
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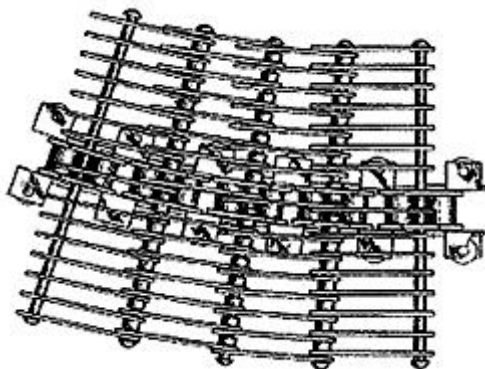
B65G 17/062

{the profiles, rods, bars, rollers or the like being interconnected by a mesh or grid-like structure}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



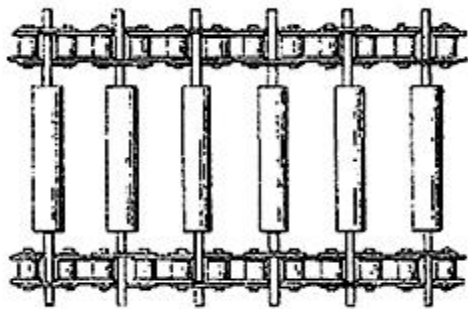
B65G 17/063

{the load carrying surface being formed by profiles, rods, bars, rollers or the like attached to more than one traction element ([B65G 17/24](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

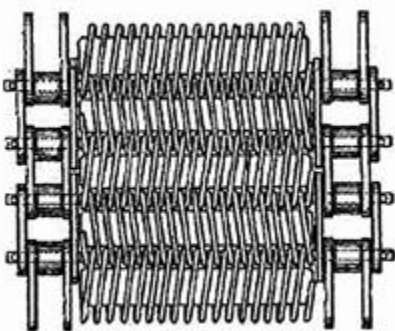
**B65G 17/064**

{the profiles, rods, bars, rollers or the like being interconnected by a mesh or grid-like structure}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



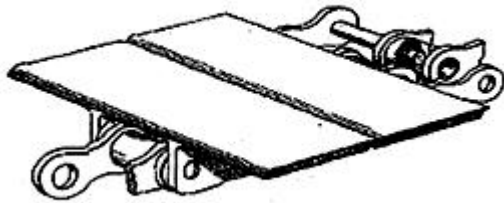
B65G 17/065

{the load carrying surface being formed by plates or platforms attached to a single traction element}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

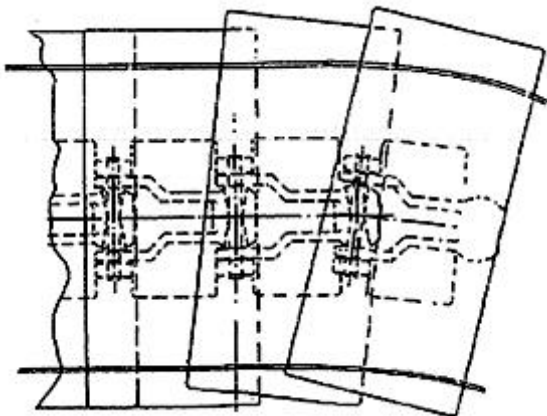
**B65G 17/066**

{specially adapted to follow a curved path (for individual load carriers [B65G 17/22](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



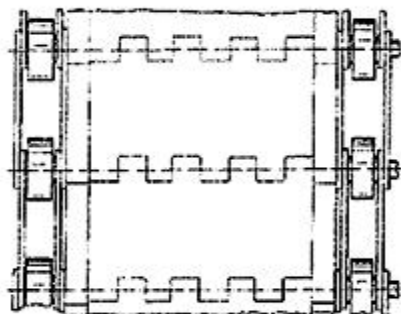
B65G 17/067

{the load carrying surface being formed by plates or platforms attached to more than one traction element}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

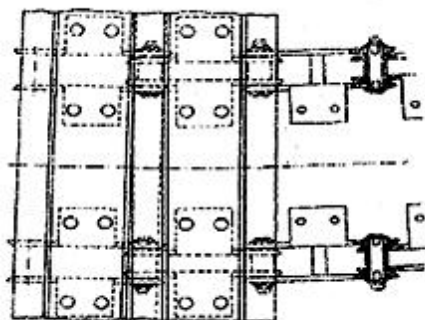
**B65G 17/068**

{specially adapted to follow a curved path (for individual load carriers [B65G 17/22](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



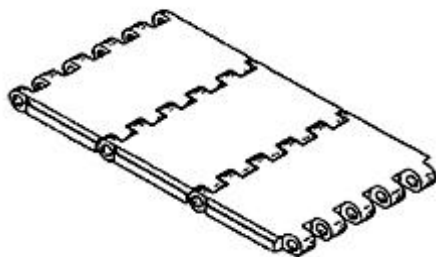
B65G 17/08

the surface being formed by the traction element

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**Special rules of classification**

Chains whereby the chain would be broken if a load carrier is removed should be classified in [B65G 17/08](#) (Otherwise [B65G 17/06](#)).

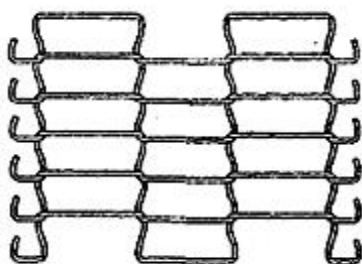
B65G 17/083

{the surface being formed by profiles, rods, bars, rollers or the like}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



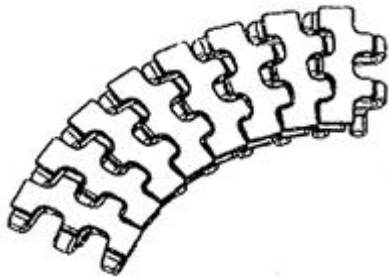
B65G 17/086

{specially adapted to follow a curved path (for individual load carriers
[B65G 17/22](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



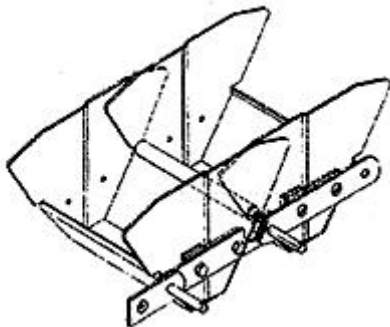
B65G 17/10

the surface forming a longitudinal trough

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



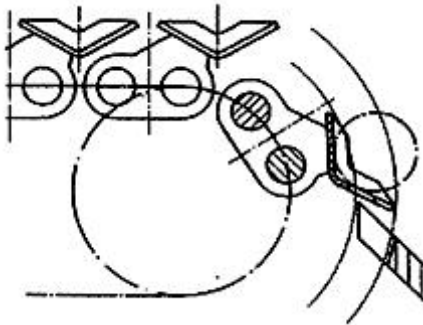
B65G 17/12

comprising a series of individual load-carriers fixed, or normally fixed, relative to traction element

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

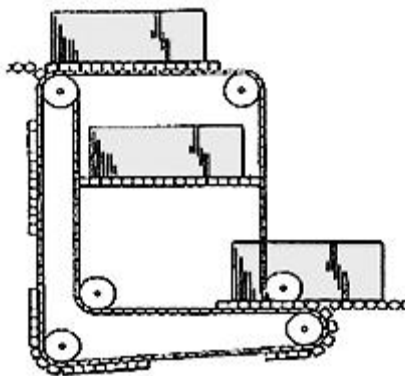
**B65G 17/123**

{arranged to keep the load-carriers horizontally during at least a part of the conveyor run}

Definition statement

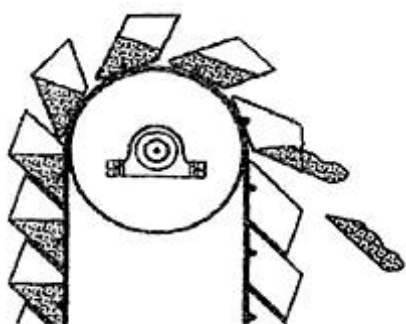
This place covers:

Illustrative example of subject matter classified in this group:



B65G 17/126**{Bucket elevators}****Definition statement***This place covers:*

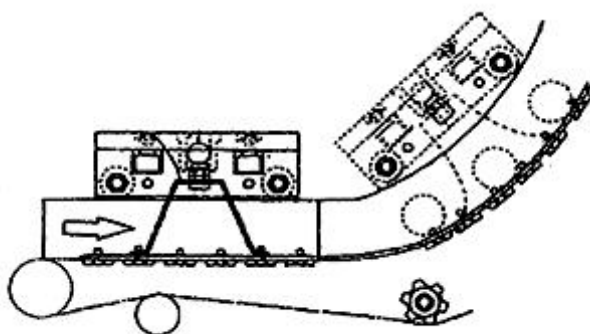
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For details of the bucket	B65G 17/36
For means for fastening the bucket to the chain	B65G 17/42
For details of the means to load/unload the buckets	B65G 47/58

B65G 17/14**with two spaced connections to traction element****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



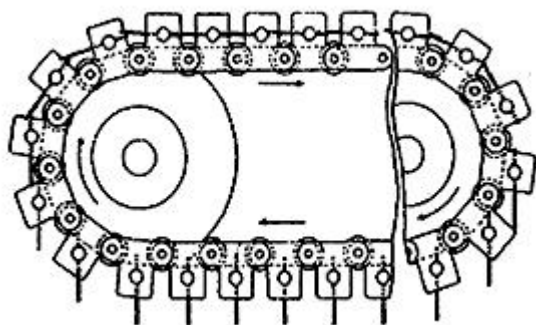
B65G 17/16

comprising individual load-carriers which are pivotally mounted, e.g. for free-swinging movement (guides inverting or tilting load-carriers for emptying {[B65G 47/38](#); [B65G 17/20](#) takes precedence})

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Suspended load-carriers	B65G 1/127
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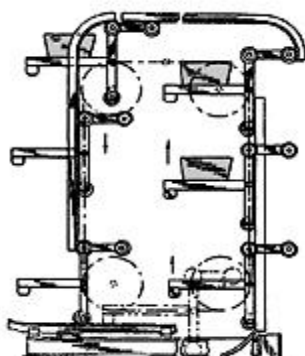
B65G 17/18

and move in contact with a guiding surface

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



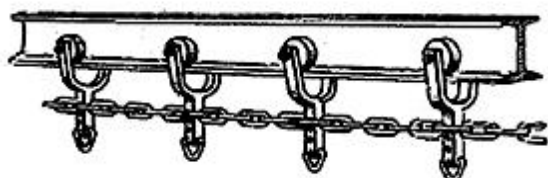
B65G 17/20

comprising load-carriers suspended from overhead traction chains

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Rollers attached to moving belts or chains	B65G 39/20
Conveyors for slaughterhouses	A22B 7/001

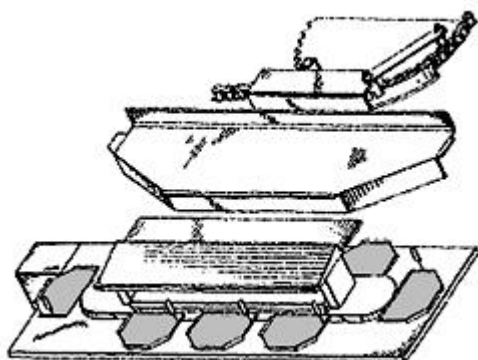
B65G 17/22

with oppositely-moving parts of the conveyor located in a common plane {and being formed by individual load carriers only}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



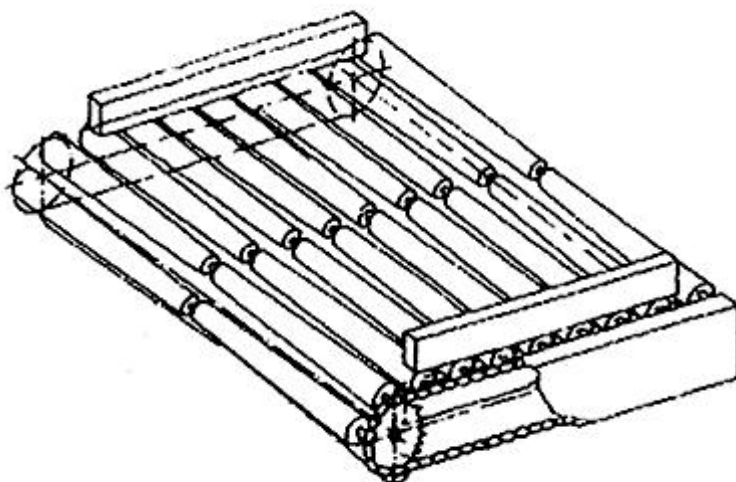
B65G 17/24

comprising a series of rollers which are moved {, e.g. over a supporting surface, by the traction element to effect conveyance of loads or load-carriers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

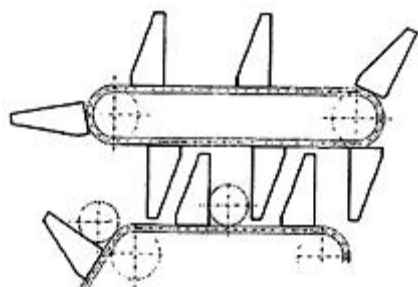
**B65G 17/26**

comprising a series of co-operating units, e.g. interconnected by pivots

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

For belts	B65G 15/10
Conveying means adjustable for different sizes of articles	B65B 59/005

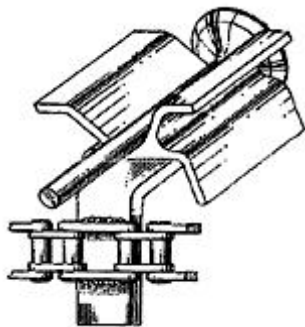
B65G 17/32

Individual load-carriers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control	B65G 17/48
For conveying pucks	B65G 2201/0258 , B65G 2201/0261
Related to pucks (spring pressure)	B65D 25/10 , B65D 25/101

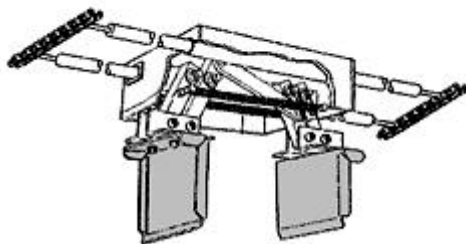
B65G 17/323

{Grippers, e.g. suction or magnetic}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



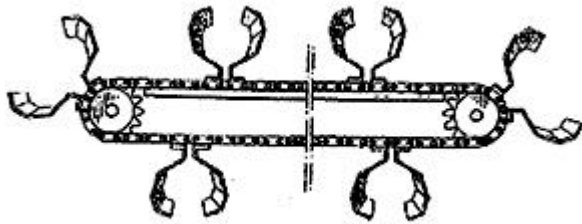
B65G 17/326

{Clamps, constituted by articulated chain links}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

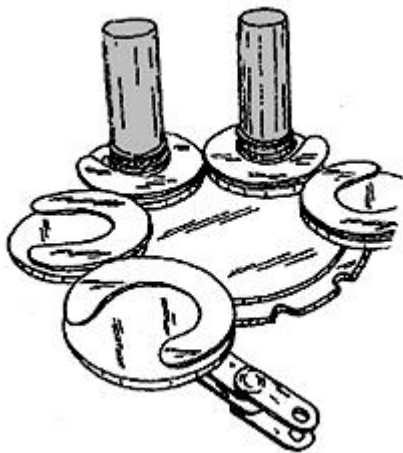
**B65G 17/34**

having flat surfaces, e.g. platforms, grids, forks

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



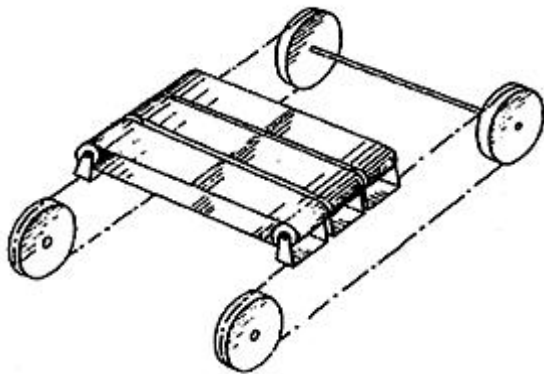
B65G 17/345

{the surfaces being equipped with a conveyor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

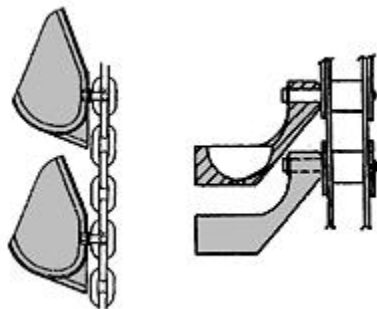
**B65G 17/36**

having concave surfaces, e.g. buckets

Definition statement

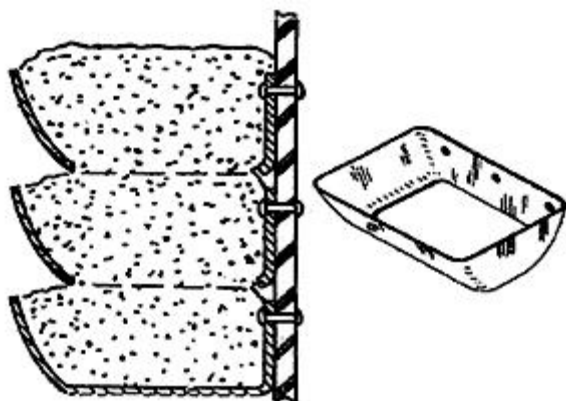
This place covers:

Illustrative example of subject matter classified in this group:

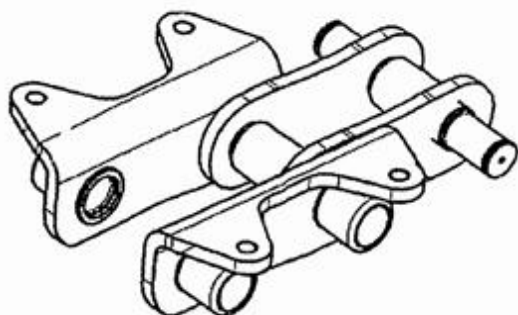


B65G 17/365**{having open bottom buckets}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 17/38****Chains or like traction elements (drive chains [F16G 13/00](#)); Connections between traction elements and load-carriers****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Drive chains	F16G 13/00
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Details of the chain link	B65G 17/06
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Self-lubricating chain links	B65G 45/08
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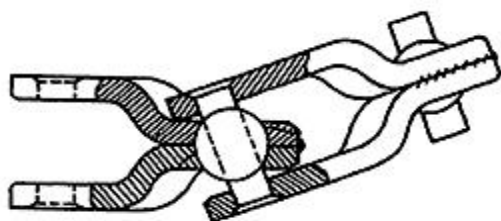
B65G 17/385

{adapted to follow three-dimensionally curved paths}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



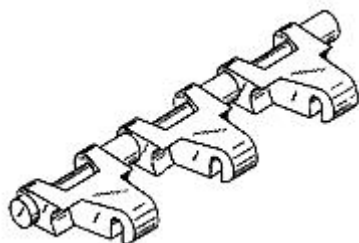
B65G 17/40

Chains acting as load-carriers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

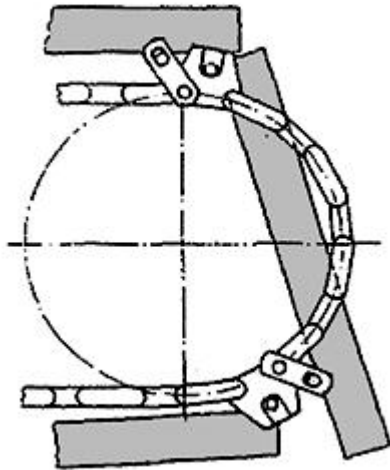
Attention is drawn to the following places, which may be of interest for search:

Details of the chain link	B65G 17/08
---------------------------	----------------------------

B65G 17/42**Attaching load carriers to traction elements****Definition statement**

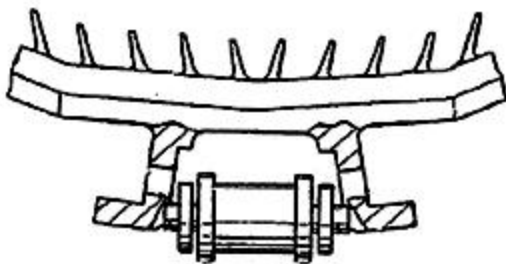
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 17/44****by means excluding relative movements****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



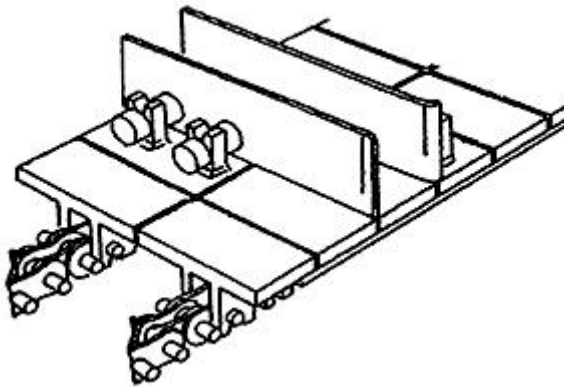
B65G 17/46

Means for holding or retaining the loads in fixed position on the load-carriers, e.g. magnetic

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

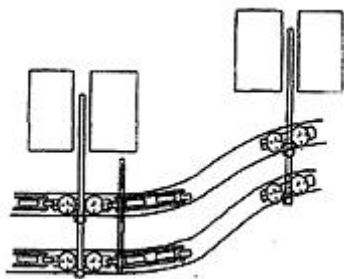
**B65G 17/48**

Controlling attitudes of load-carriers during movement ({[B65G 17/18](#) takes precedence;}) guides [B65G 21/20](#); inverting or tilting load carriers to discharge contents [B65G 47/38](#))

Definition statement

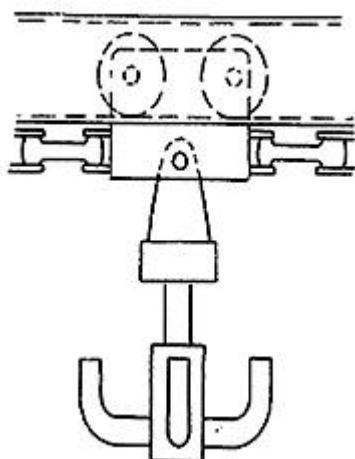
This place covers:

Illustrative example of subject matter classified in this group:



B65G 17/485**{the load carriers being suspended}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**Special rules of classification**Including means for controlling the altitude of the road carriers (otherwise: [B65G 17/20](#)).**B65G 19/00**

Conveyors comprising an impeller or a series of impellers carried by an endless traction element and arranged to move articles or materials over a supporting surface or underlying material, e.g. endless scraper conveyors

References**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Loading or unloading	B65G 65/00

Special rules of classification

In this group the following Indexing Codes are used only for search:

[B65G 2812/02861](#) - [B65G 2812/0298](#)

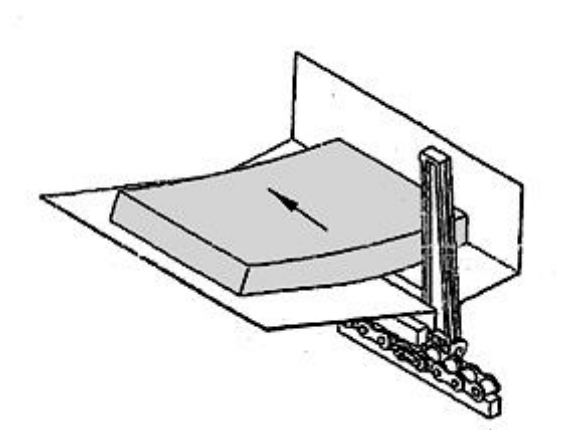
B65G 19/02

for articles, e.g. for containers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Conveyors for car wash systems	B60S 3/004
Power and free systems for (suspended) railway systems	B61B 10/00

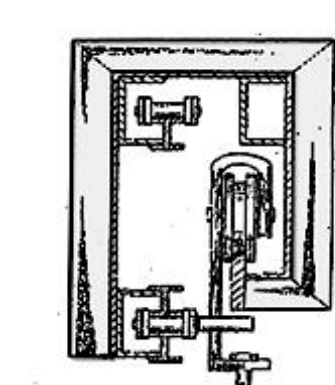
B65G 19/025

{for suspended articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Power and free systems for (suspended) railway systems)	B61B 10/00
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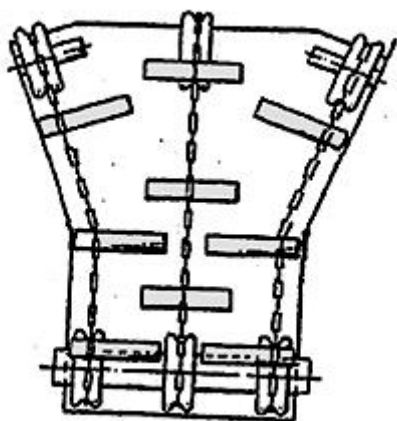
B65G 19/04

for moving bulk material in open troughs or channels

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



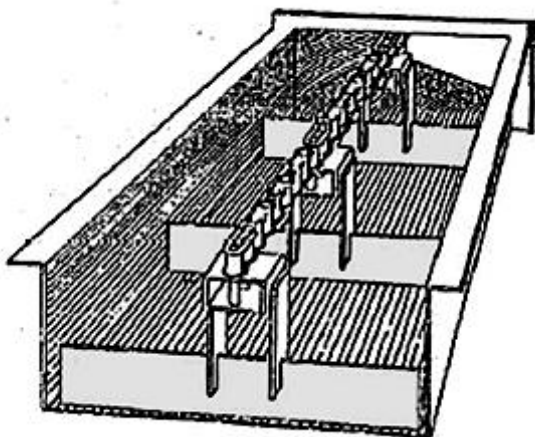
B65G 19/06

the impellers being scrapers similar in size and shape to the cross-section of the trough or channel

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

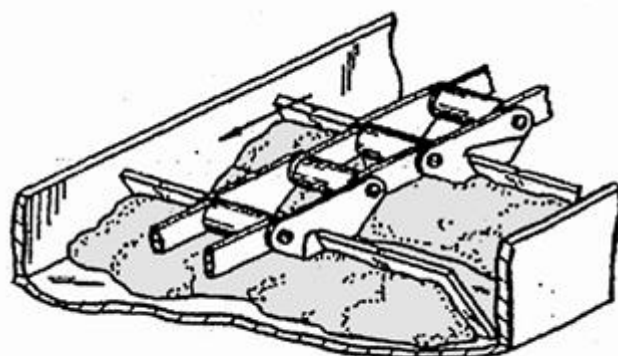
**B65G 19/08**

and attached to a single belt, rope or chain

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Attachment of impellers to traction element	B65G 19/24
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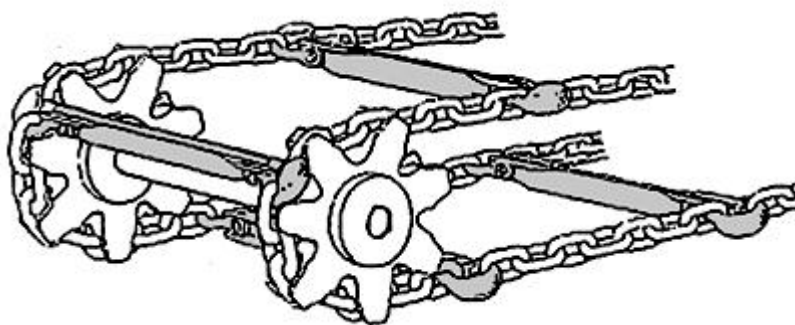
B65G 19/10

and attached to a pair of belts, ropes or chains

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Attachment of impellers to traction element	B65G 19/24
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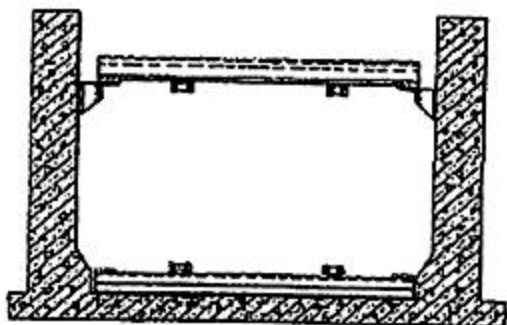
B65G 19/12

the impellers being plates having an area substantially smaller than that of the trough of channel cross-section

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



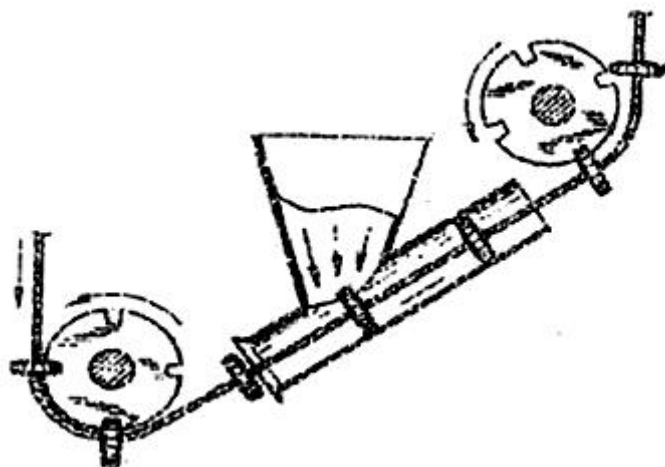
B65G 19/14

for moving bulk material in closed conduits, e.g. tubes

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Attachment of impeller	B65G 19/24
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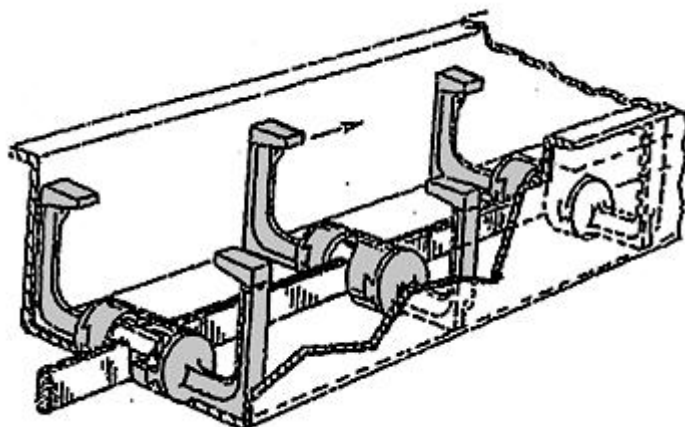
B65G 19/16

the impellers being elements having an area substantially smaller than that of the conduit cross-section

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding devices for stock or poultry	A01K 5/0208 , A01K 39/01
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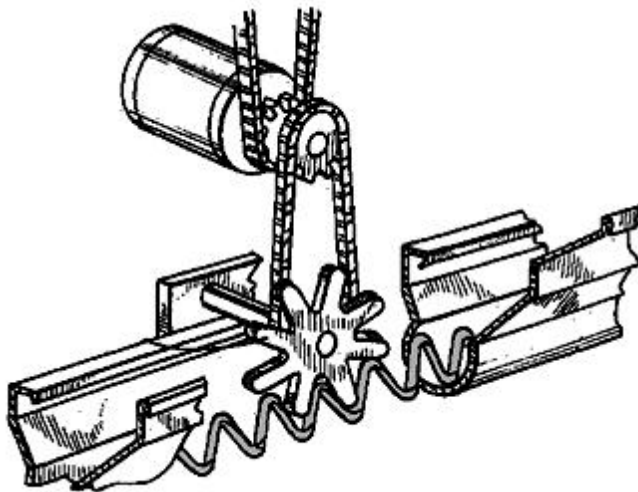
B65G 19/165

{the impellers being endless helical springs}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

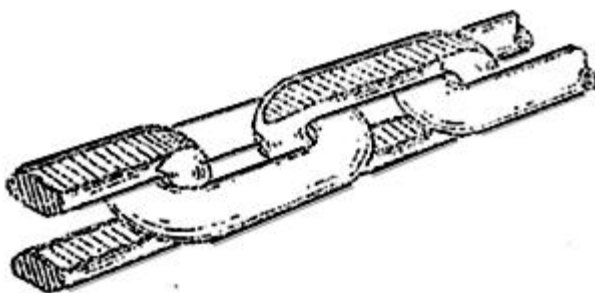
**B65G 19/20**

Traction chains, ropes, or cables

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



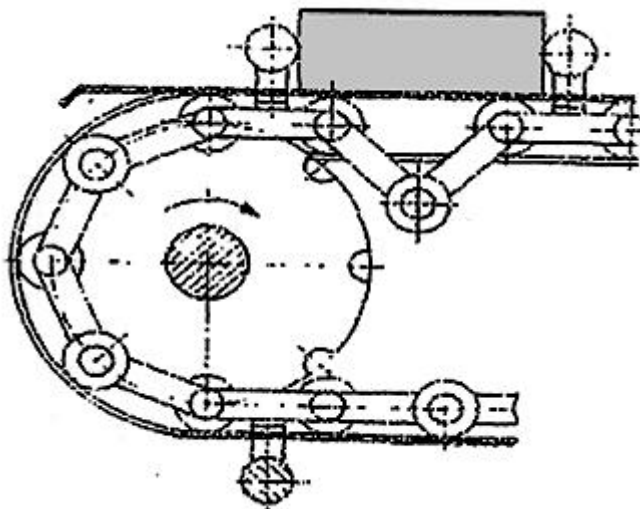
B65G 19/205

{for article conveyors, e.g. for container conveyors}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

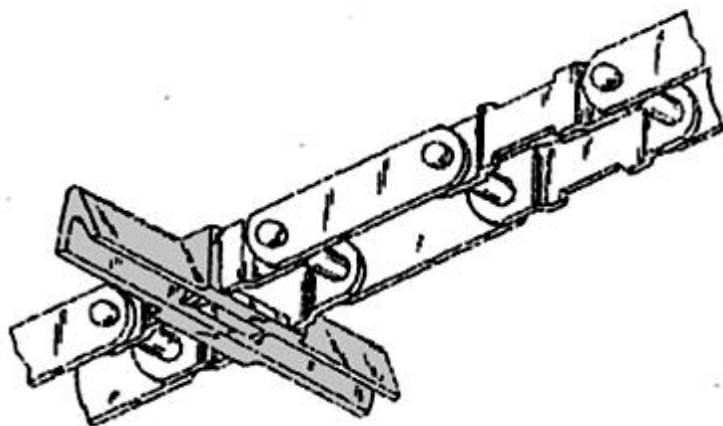
**B65G 19/22**

Impellers, e.g. push-plates, scrapers; Guiding means therefor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



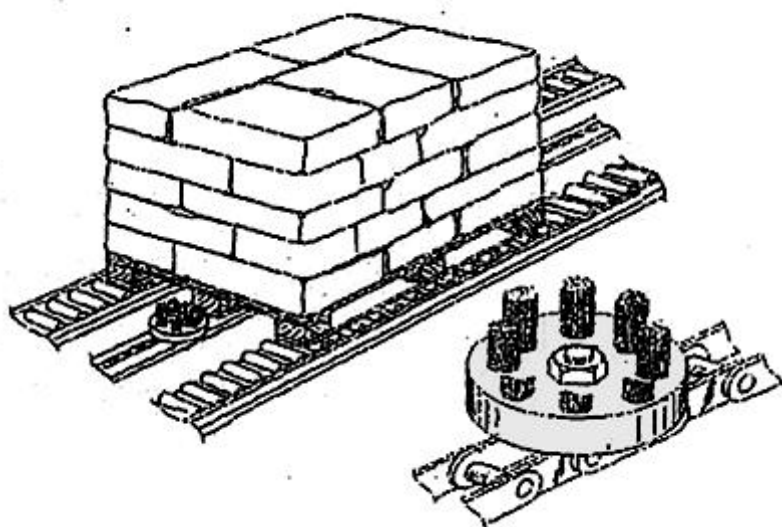
B65G 19/225

{for article conveyors, e.g. for container conveyors ([B65G 19/24](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Attachment of impellers to traction element	B65G 19/24
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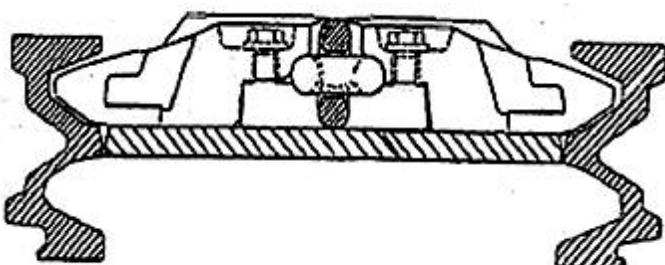
B65G 19/24

Attachment of impellers to traction element

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Conveyors comprising an impeller and attached to a single belt, rope or chain	B65G 19/08
Conveyors comprising an impeller and attached to a pair of belts, ropes or chains	B65G 19/10

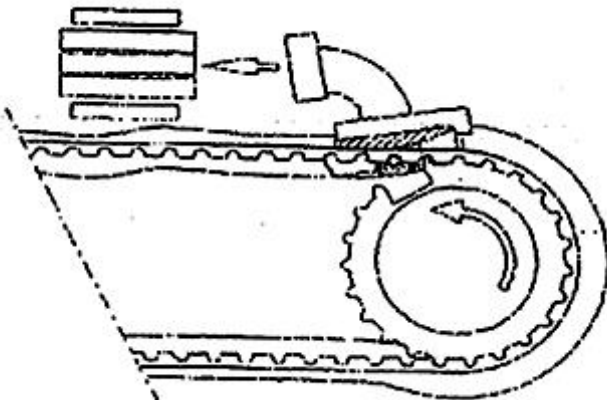
B65G 19/245

{for article conveyors, e.g. for container conveyors ([B65G 19/26](#) takes precedence)}

Definition statement

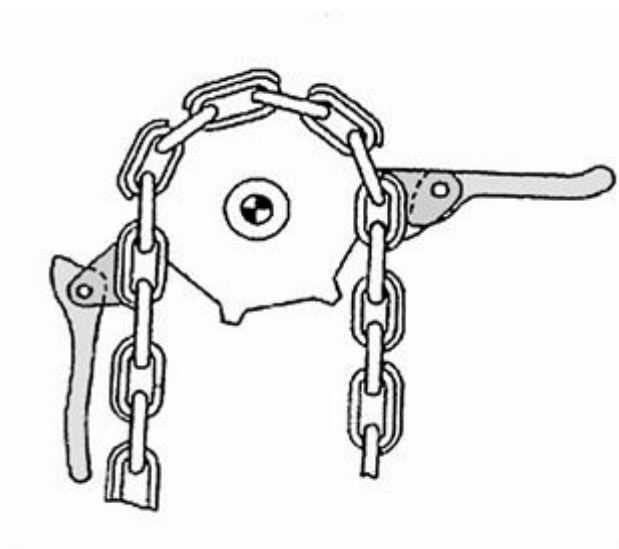
This place covers:

Illustrative example of subject matter classified in this group:



B65G 19/26**pivotal****Definition statement***This place covers:*

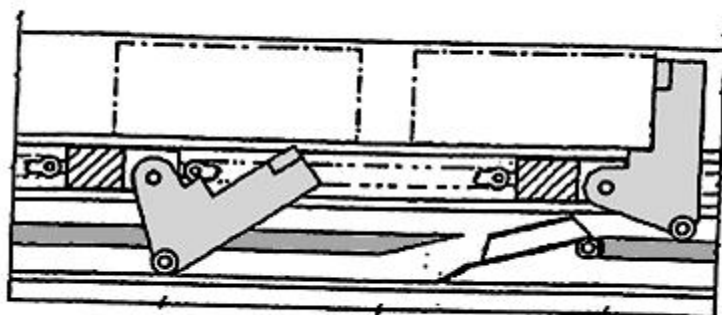
Illustrative example of subject matter classified in this group:

**B65G 19/265**

{for article conveyors, e.g. for container conveyors}

Definition statement*This place covers:*

Illustrative example of subject matter classified in this group:



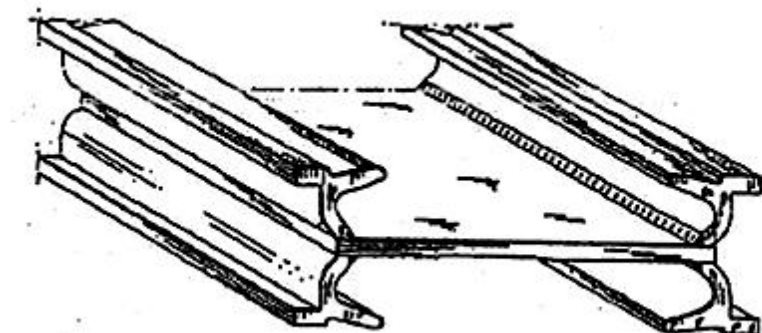
B65G 19/28

Troughs, channels, or conduits

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

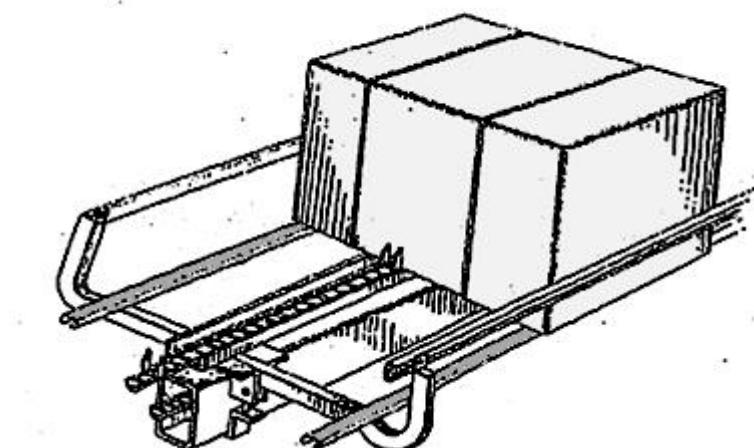
**B65G 19/282**

{for article conveyors, e.g. for container conveyors ([B65G 19/30](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Conveyors with supporting surface modified to facilitate movement of loads	B65G 19/30
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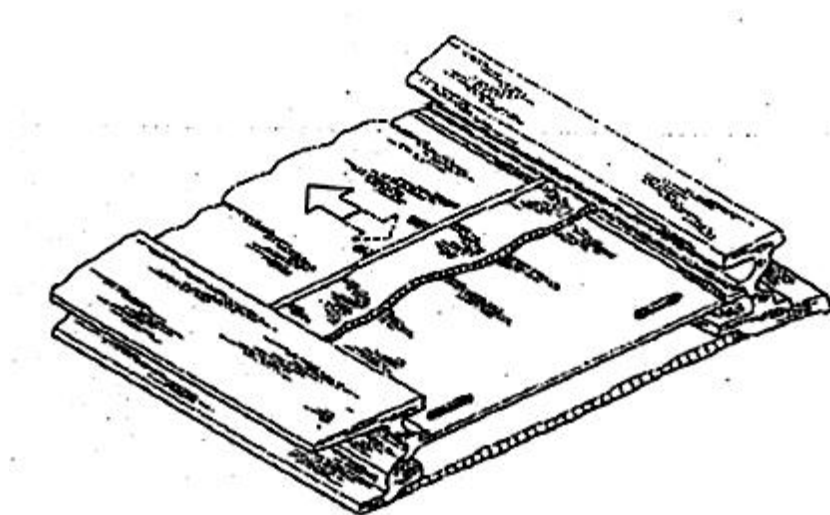
B65G 19/285

{with detachable or replaceable parts, e.g. replaceable wear channels
([B65G 19/282](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



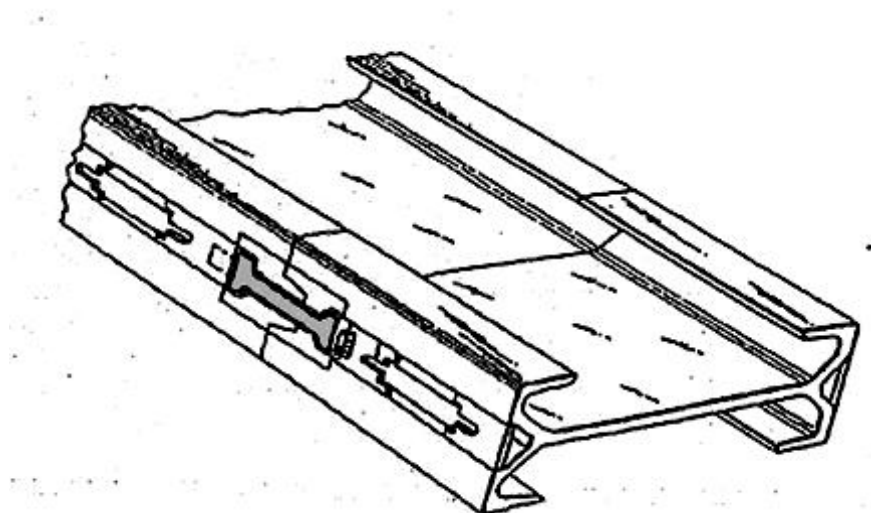
B65G 19/287

{Coupling means for trough sections ([B65G 19/282](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

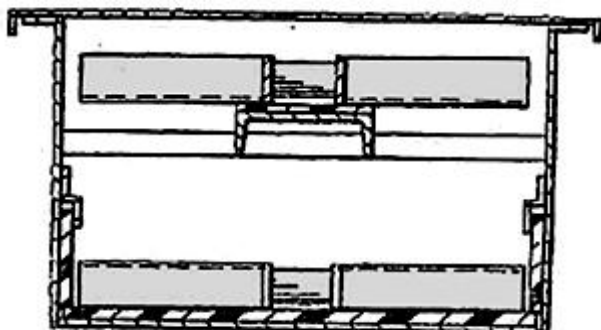
**B65G 19/30**

with supporting surface modified to facilitate movement of loads, e.g. friction reducing devices

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Guides for impellers and/or traction element	B65G 21/2045
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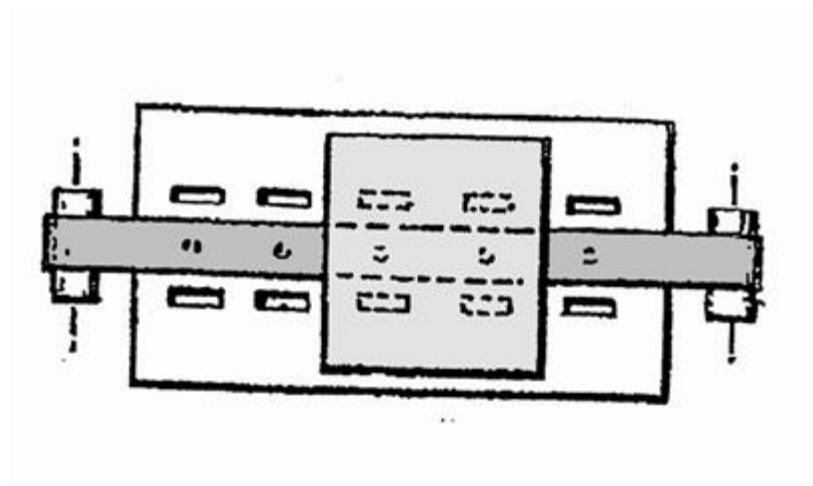
B65G 19/303

{for article conveyors, e.g. for container conveyors}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



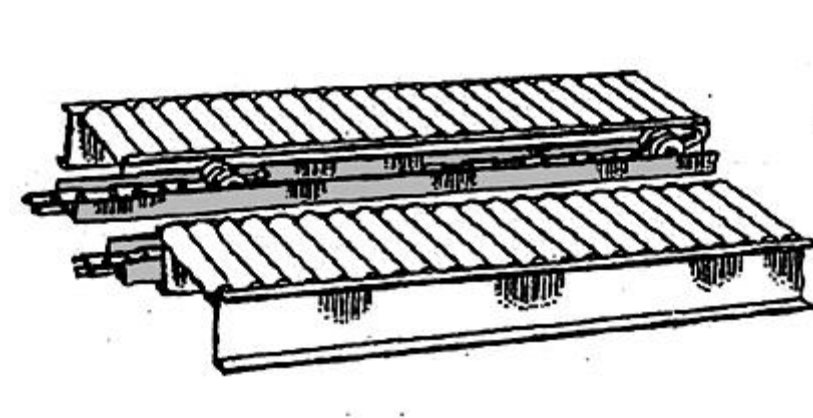
B65G 19/306

{the supporting surface being provided with rollers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



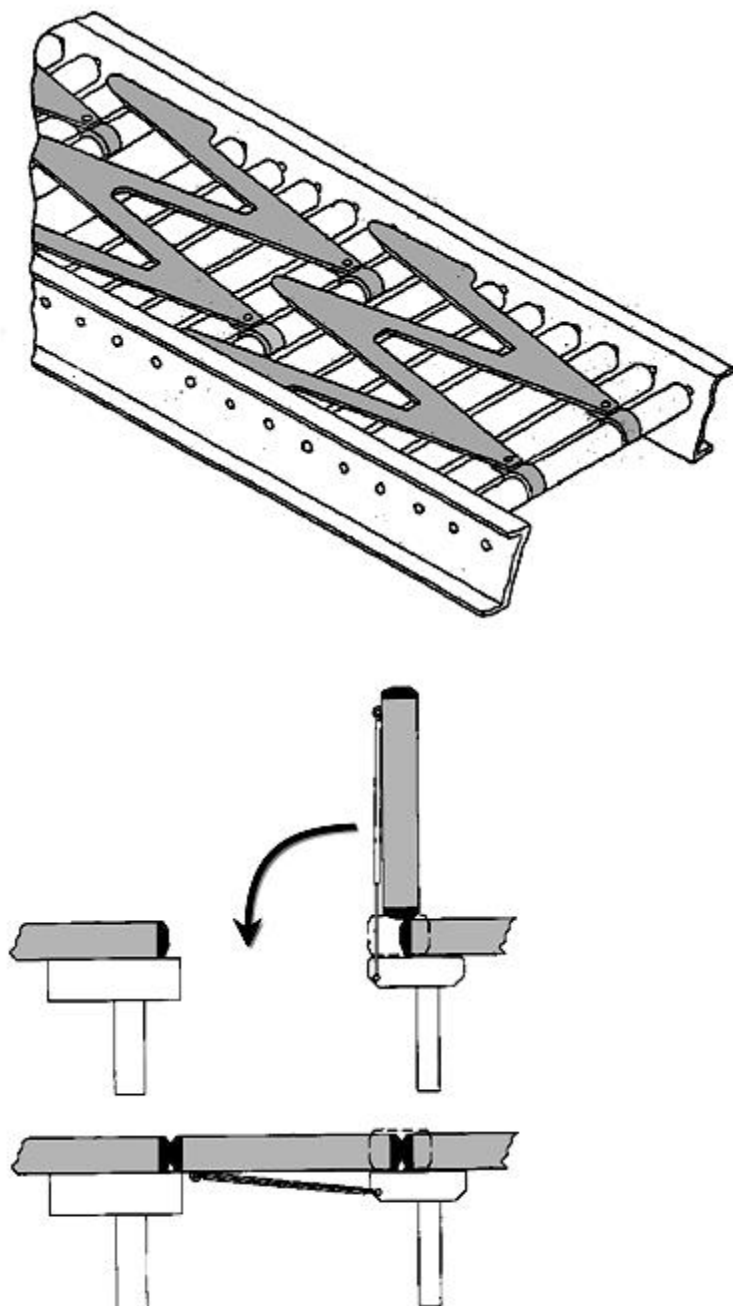
B65G 21/00

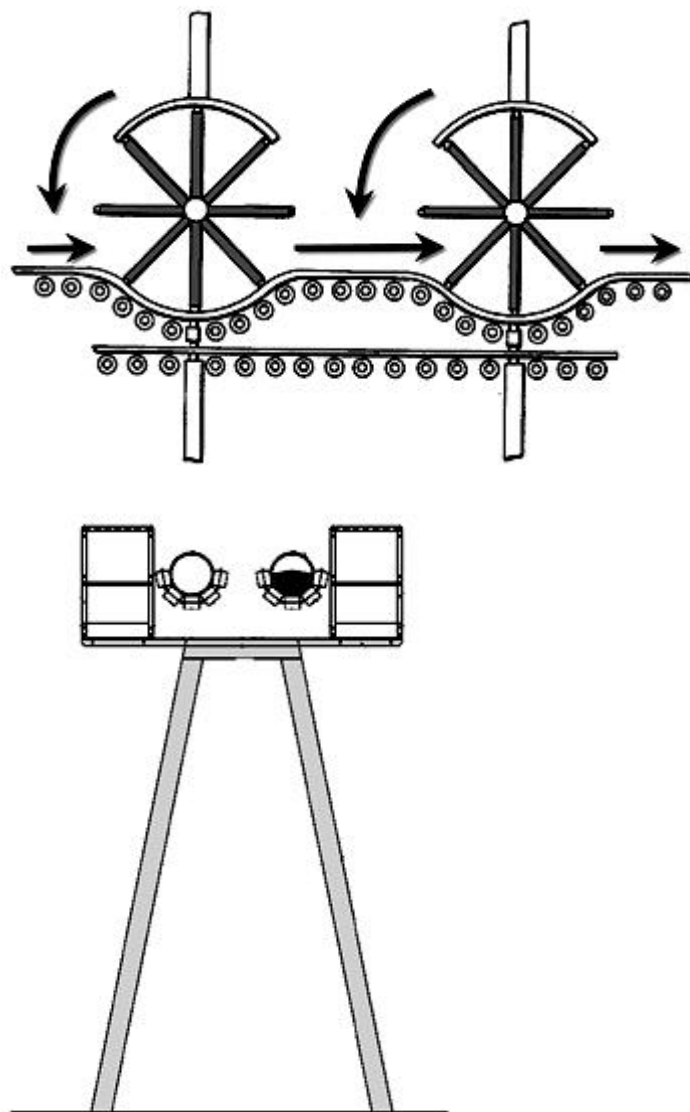
Supporting or protective framework or housings for endless load-carriers or traction elements of belt or chain conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pivoting part(s) to permit passage of people	B65G 13/00
For load carriers in jiggling conveyors	B65G 27/08
Supporting framework or bases for conveyors as a whole	B65G 41/00
Preventing static electricity	B65G 43/00
Hygienic means	B65G 2207/26
Guards for rolls in roll machines	F16P 1/005

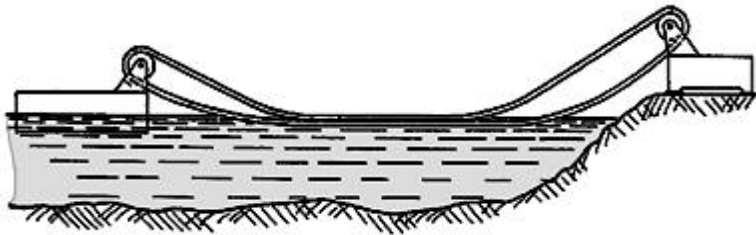
B65G 21/005

{for conveyors floating on liquids}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

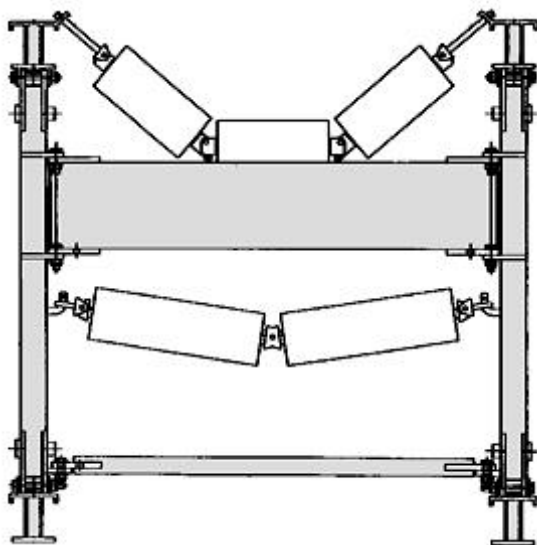
**B65G 21/02**

consisting essentially of struts, ties, or like structural elements

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



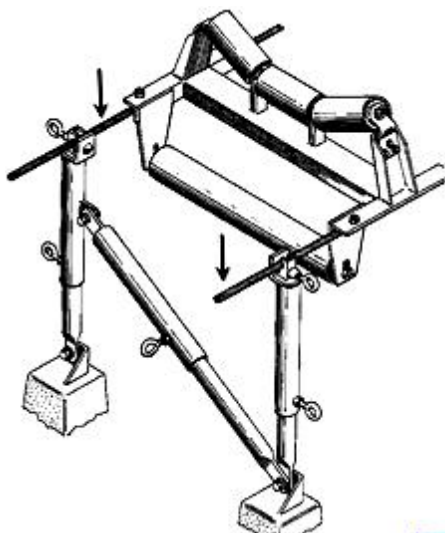
B65G 21/04

the ties being formed by longitudinal cables or ropes

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Attachment of rollers to cables	B65G 39/145
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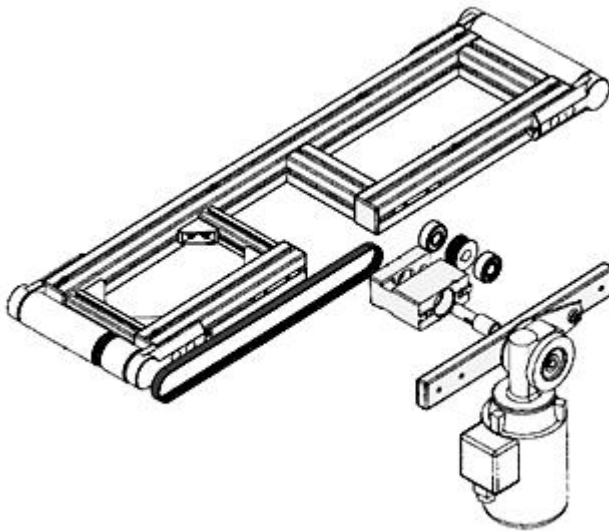
B65G 21/06

constructed to facilitate rapid assembly or dismantling

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

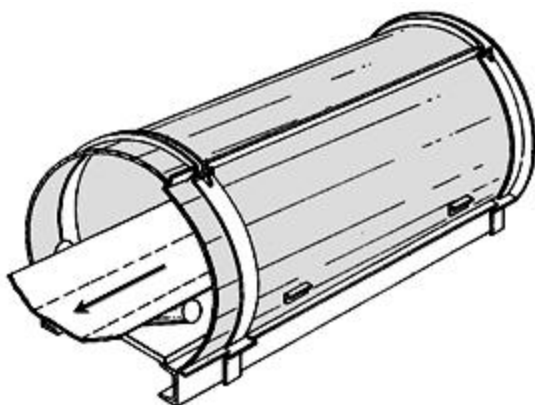
**B65G 21/08**

Protective roofs or arch supports therefor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



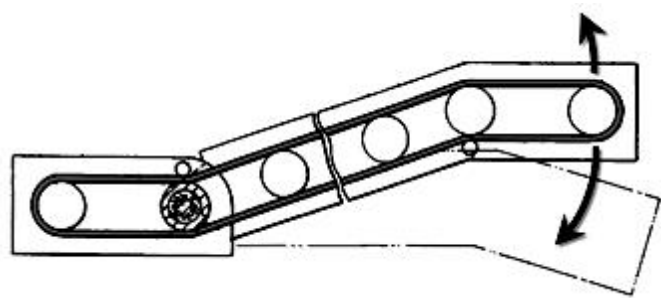
B65G 21/10

movable, or having interchangeable or relatively movable parts; Devices for moving framework or parts thereof

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Adjustment of length	B65G 21/14
Conveyor adjustably mounted on the frame	B65G 41/001

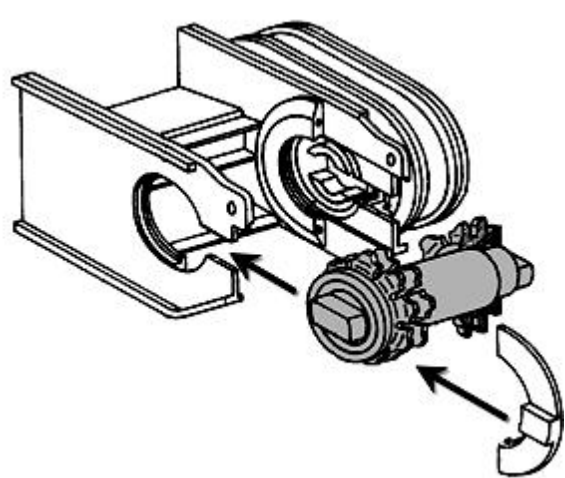
B65G 21/105

{having demountable driving or return heads}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



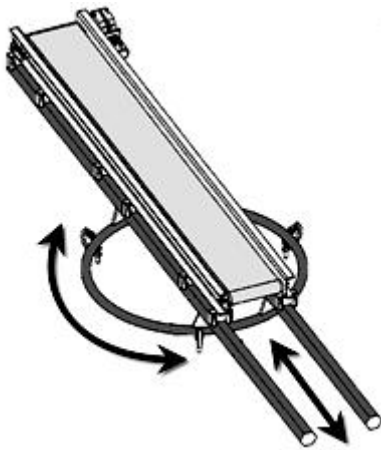
B65G 21/12

to allow adjustment of position of load-carrier or traction element as a whole

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

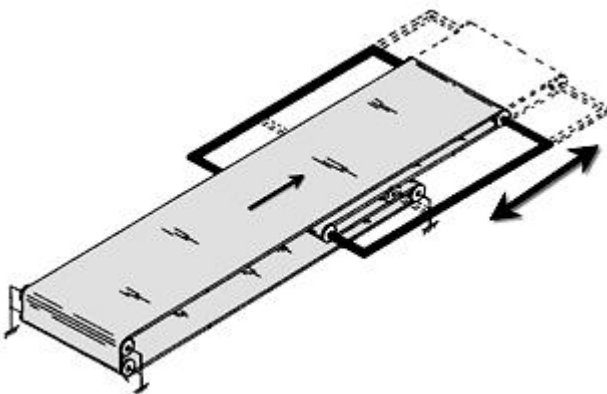
**B65G 21/14**

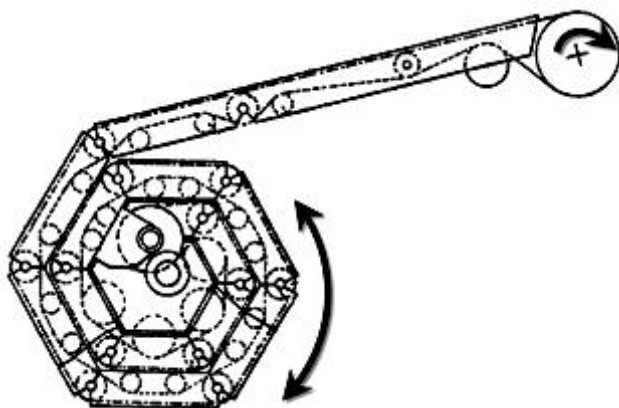
to allow adjustment of length or configuration of load-carrier or traction element (varying speed of conveyance by adjusting configuration of load-carrier [B65G 23/00](#); {tensioning arrangements for belt or chain [B65G 23/44](#)})

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Length for configuration	B65G 21/20
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Special rules of classification

For speed adjustment of [B65G 47/31](#) conveyors see [B65G 23/30](#).

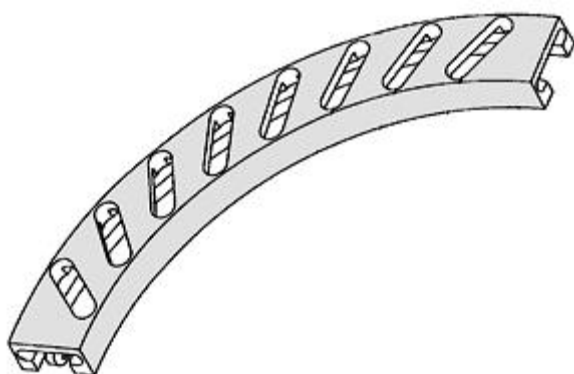
B65G 21/16

for conveyors having endless load-carriers movable in curved paths

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



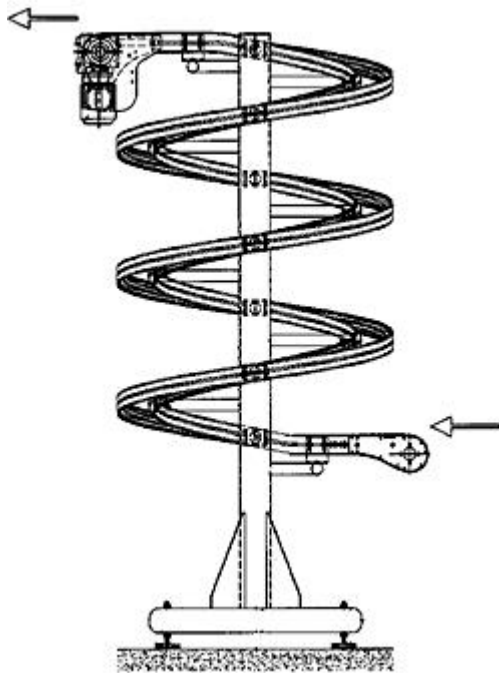
B65G 21/18

in three-dimensionally curved paths

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

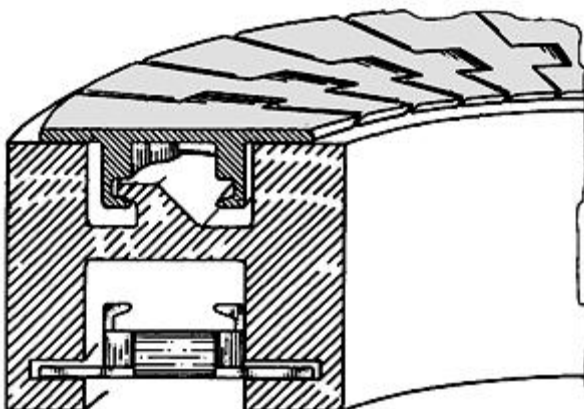
**B65G 21/20**

Means incorporated in, or attached to, framework or housings for guiding load-carriers, traction elements or loads supported on moving surfaces (arrangements for supporting belts [B65G 15/60](#); rollers or roller arrangements [B65G 39/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Moving rollers for supporting a chain conveyor (for belt conveyor)	B65G 15/60
Rollers or roller arrangements	B65G 39/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of chain conveyors	B65G 17/30
The supporting surface being provided with rollers	B65G 19/306
Belts, cables or ropes predominantly used for driving purposes; Chains; Fittings predominantly used therefor	F16G
Frames for freezing/cooling purposes	F25D 3/11 , F25D 13/06 , F25D 25/04

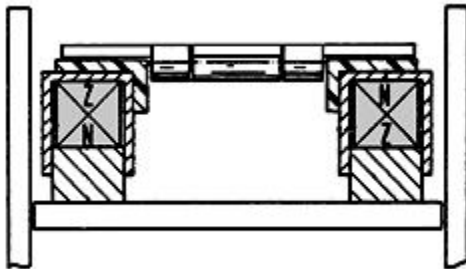
B65G 21/2009

{Magnetic retaining means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Magnetic retaining means for retaining the load on the load-carrying surface	B65G 21/2018
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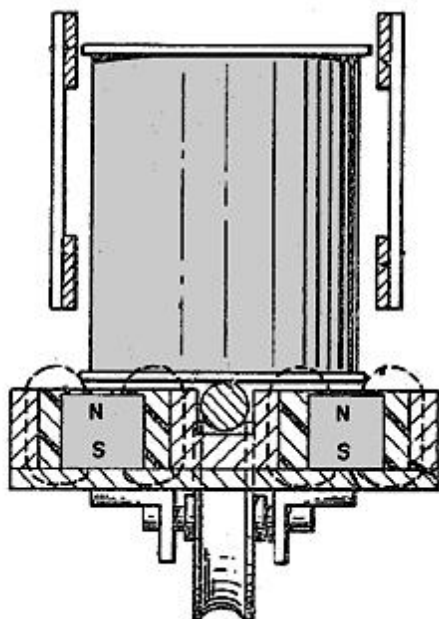
B65G 21/2018

{for retaining the load on the load-carrying surface, (retaining loads by magnetic load-carriers, e.g. belts [B65G 15/58](#), chains [B65G 17/46](#); individual magnetic grippers [B65G 17/323](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

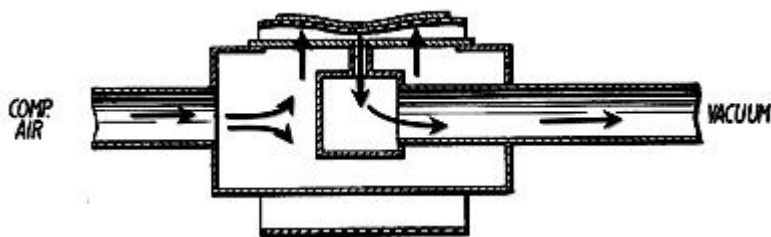
Informative references

Attention is drawn to the following places, which may be of interest for search:

Stacking	B65G 57/04
Destacking	B65G 59/04
Stacking (FICLA)	B65G15/58&A
Chains (FICLA)	B65G15/46&B

B65G 21/2027**{Suction retaining means}****Definition statement***This place covers:*

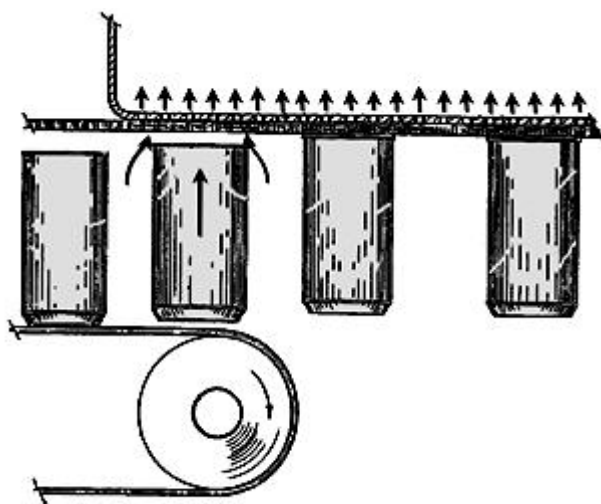
Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

For retaining the load on the load-carrying surface

[B65G 21/2036](#)**B65G 21/2036****{for retaining the load on the load-carrying surface (individual suction grippers [B65G 17/323](#))}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stacking	B65G 57/04
Destacking	B65G 59/04
Stacking (FICLA)	B65G15/58&A
Chains (FICLA)	B65G15/46&B

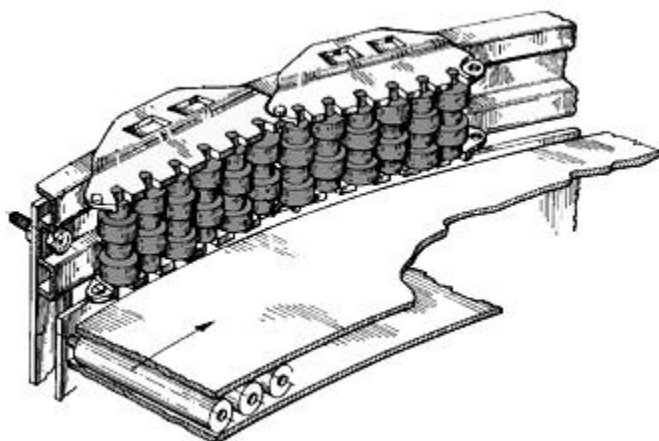
B65G 21/2054

{comprising elements movable in the direction of load-transport}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

See also for the construction of the roller itself	B65G 39/18
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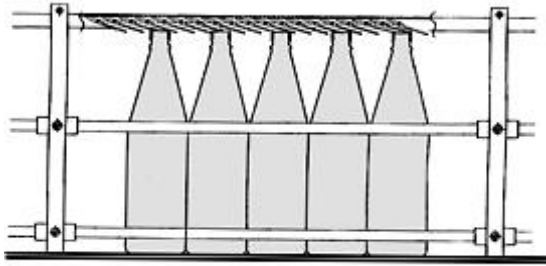
B65G 21/2063

{comprising elements not movable in the direction of load-transport}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

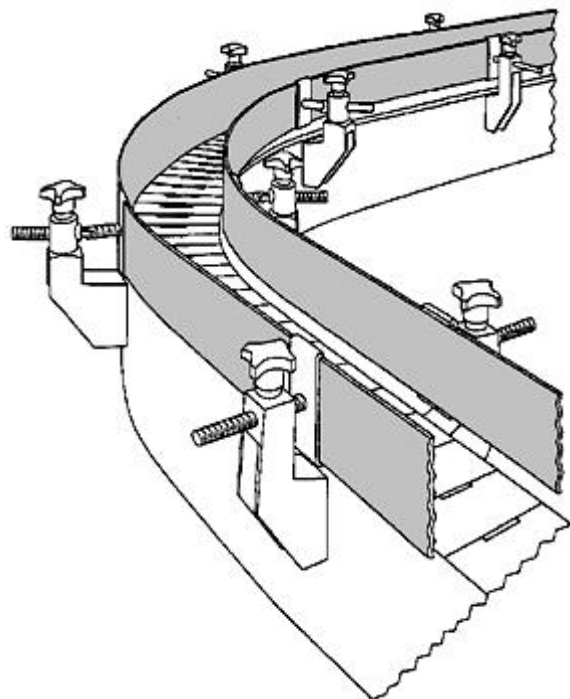
**B65G 21/2072**

{Lateral guidance means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



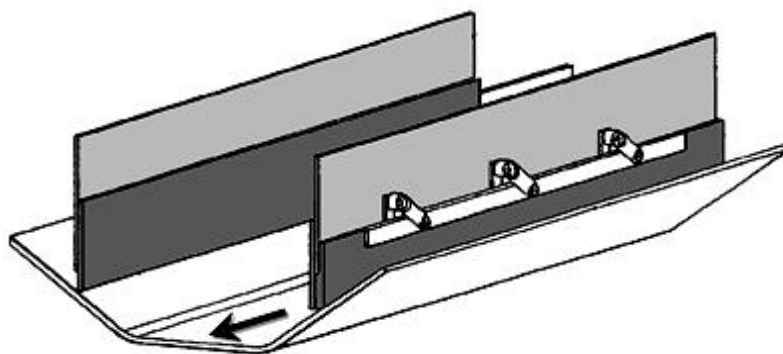
B65G 21/2081

{for bulk material, e.g. skirts}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

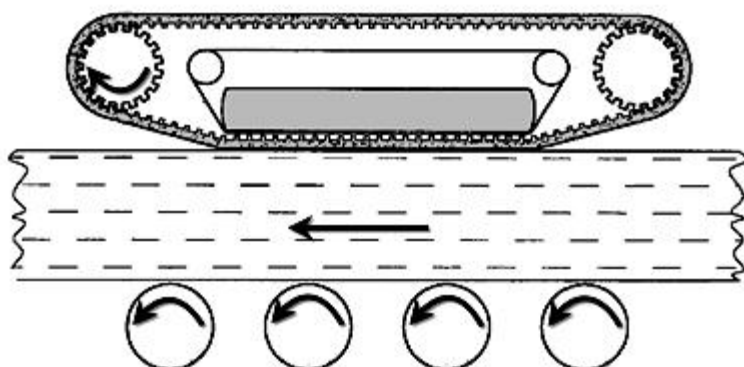
**B65G 21/209**

{for augmenting or creating a pression force between the load and the load-carrying surface}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



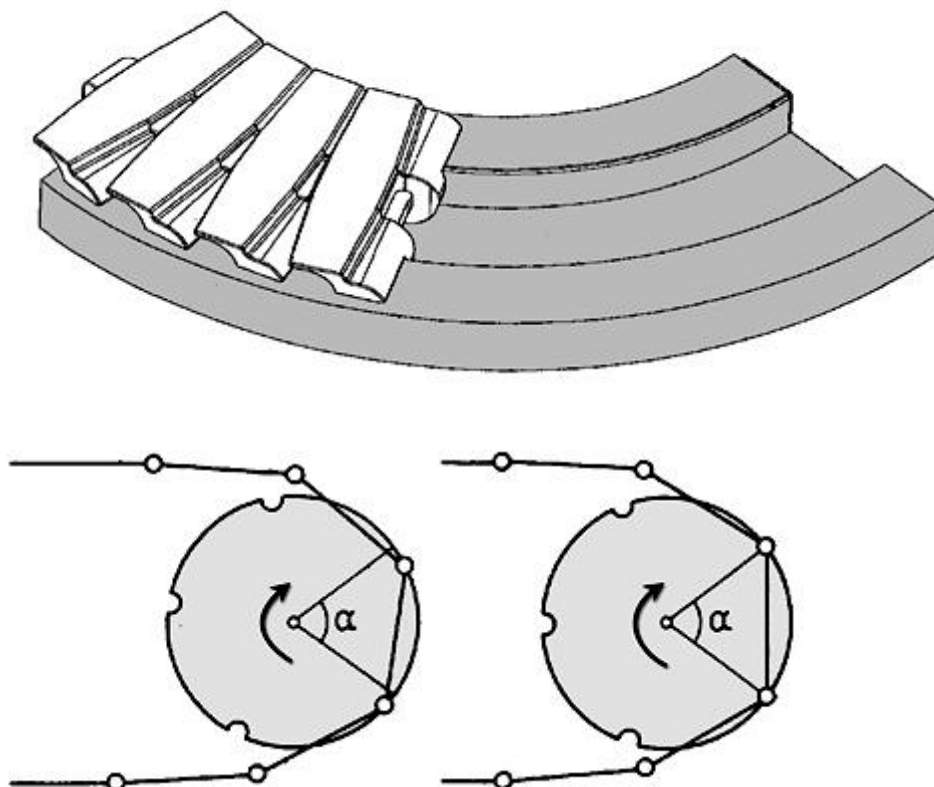
B65G 21/22

Rails or the like engaging sliding elements or rollers attached to load-carriers or traction elements

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Guiding a conveyor belt in a circular arc	B65G 15/02
Guiding means for preventing polygonal or chordal effect	B66B , F16H 7/06

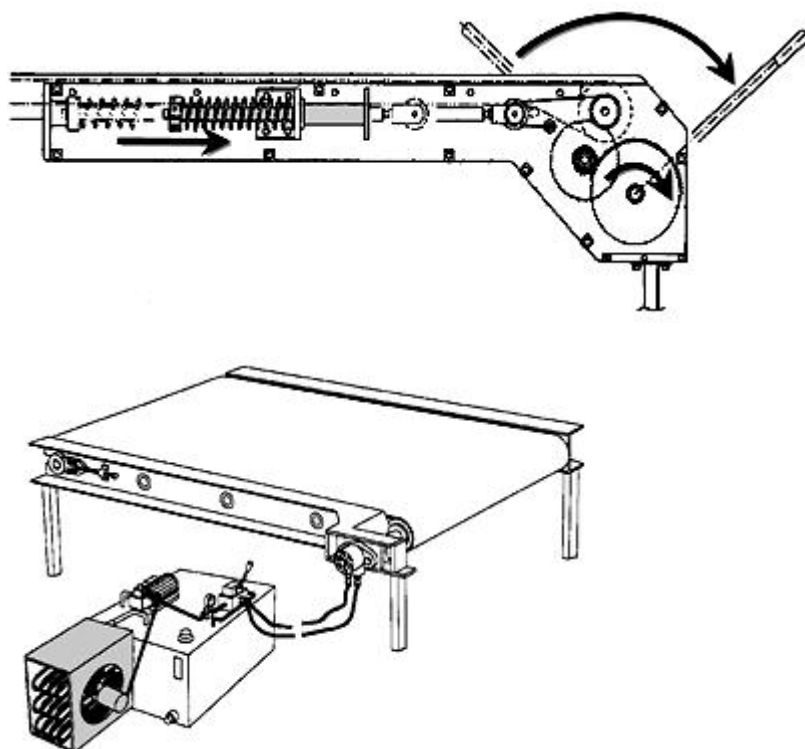
B65G 23/00

Driving gear for endless conveyors; Belt- or chain-tensioning arrangements

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

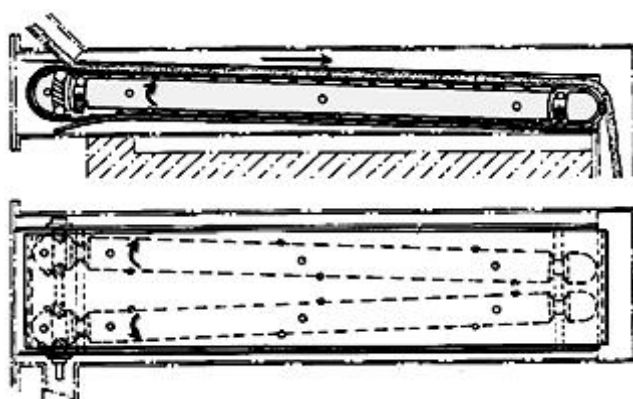
Attention is drawn to the following places, which may be of interest for search:

If driving is specific to the spiral shape of the conveyor	B65G 21/18
Cooling means for internal drive	B65G 23/08
Control devices for conveyors in general	B65G 43/00
Polygonal effect	B66B 23/022

B65G 23/02**Belt- or chain-engaging elements****Definition statement**

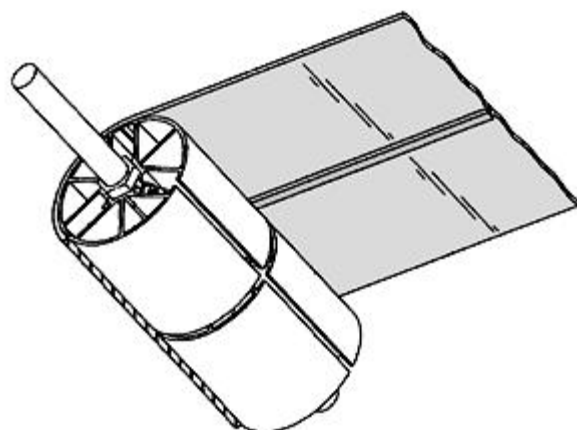
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 23/04****Drums, rollers, or wheels {(B65G 23/18 takes precedence)}****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Rollers	B65G 39/02
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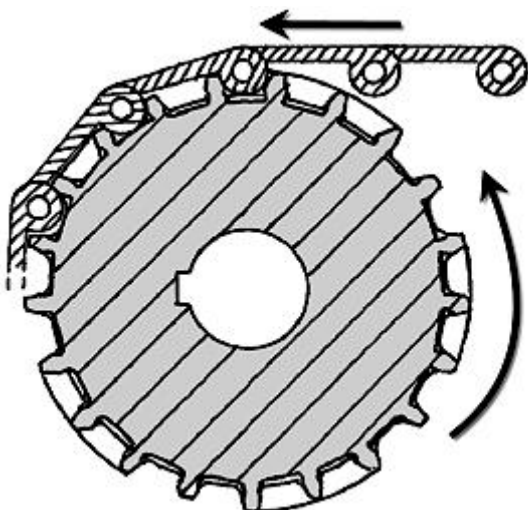
B65G 23/06

with projections engaging abutments on belts or chains, e.g. sprocket wheels

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

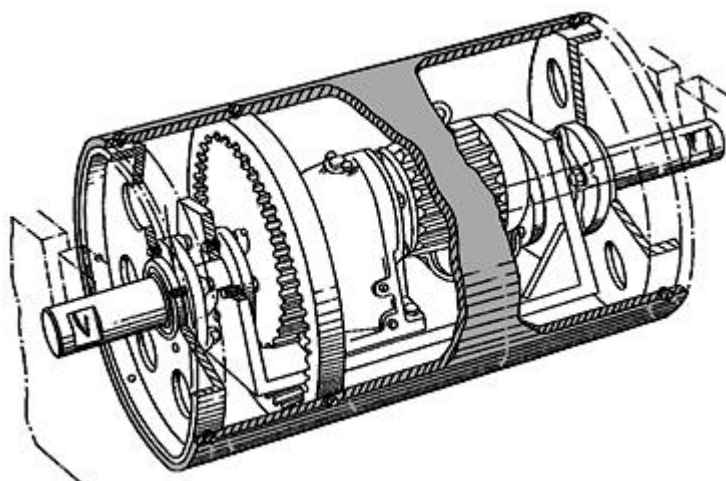
**B65G 23/08**

with self-contained driving mechanisms, e.g. motors and associated gearing

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Cooling means for external drive	B65G 23/00
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Treadmills	A63B 22/0235
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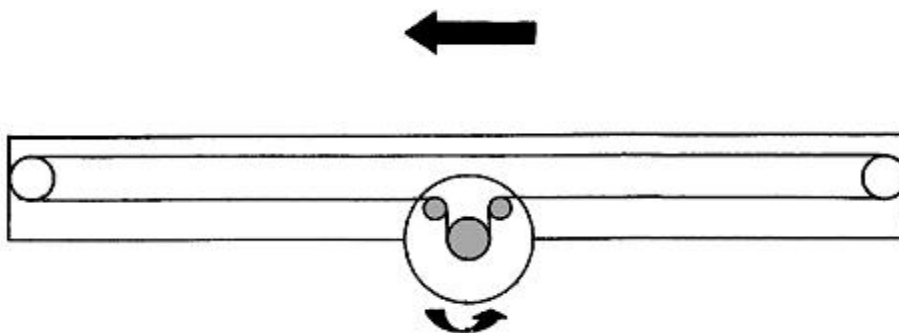
B65G 23/10

arranged intermediate the ends of the conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts	B65G 23/12
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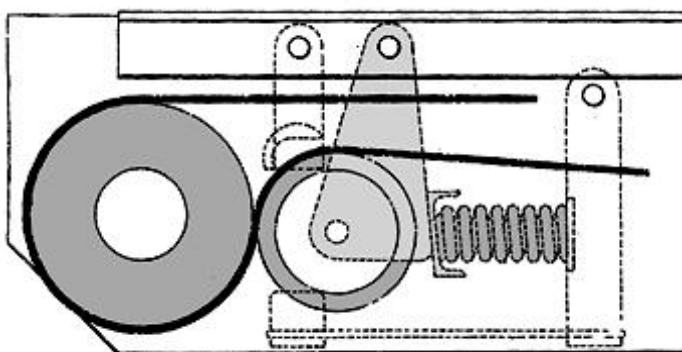
B65G 23/12

Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



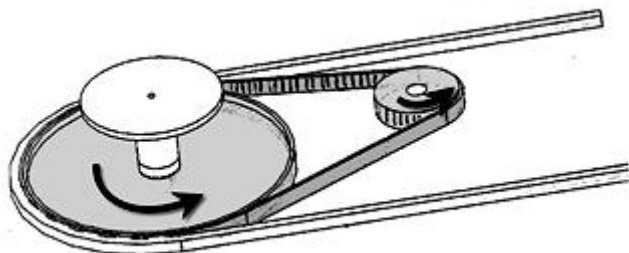
B65G 23/14

Endless driving elements extending parallel to belt or chain {([B65G 23/18](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Driving gear for endless conveyors with dogs engaging abutments	B65G 23/18
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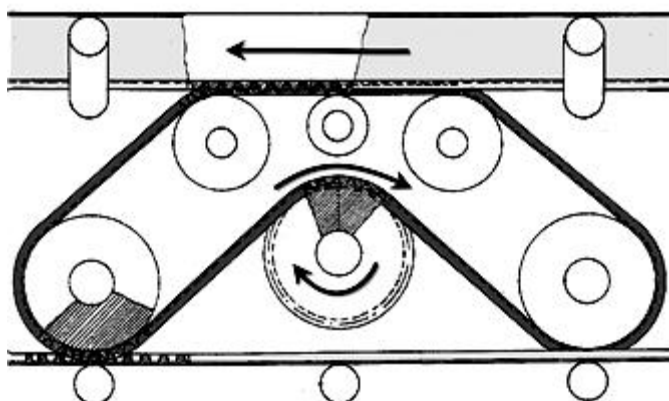
B65G 23/16

with dogs engaging abutments on belts or chains

Definition statement

This place covers:

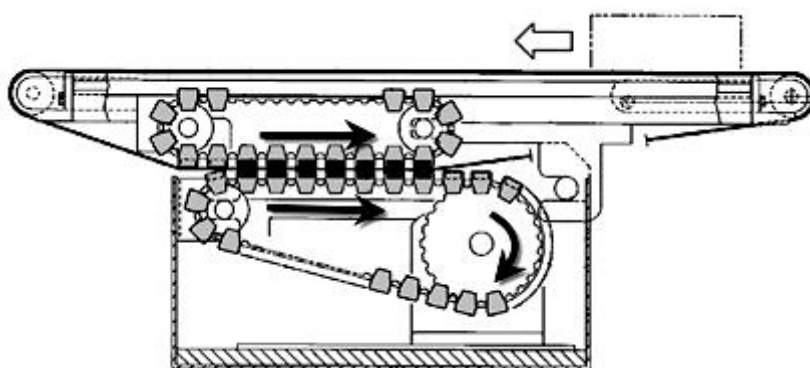
Illustrative example of subject matter classified in this group:



B65G 23/18**Suction or magnetic elements****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

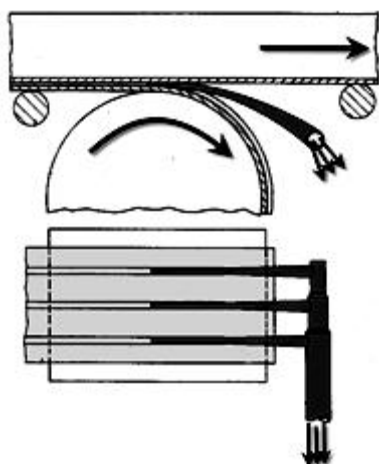
This place does not cover:

For suction elements	B65G 23/19
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B65G 23/19**Suction elements****Definition statement**

This place covers:

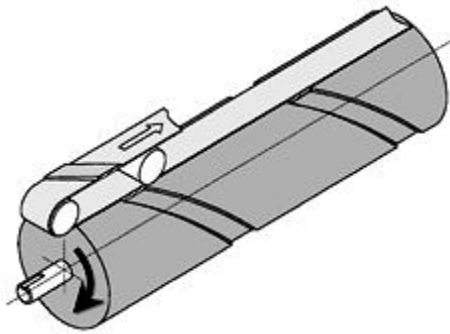
Illustrative example of subject matter classified in this group:



B65G 23/20**Screws****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

For effecting intermittent movement	B65G 23/38
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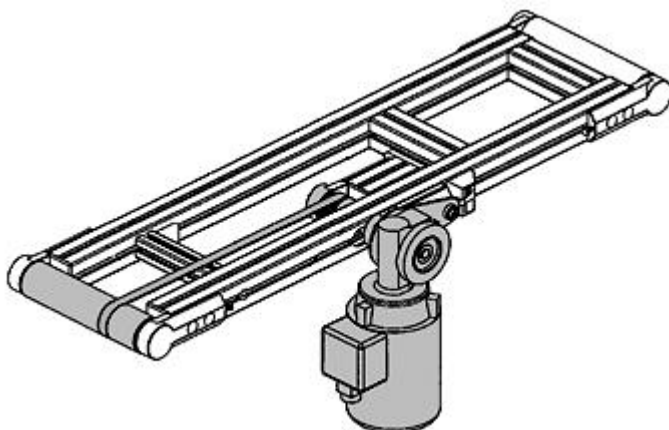
B65G 23/22

Arrangements or mountings of driving motors {([B65G 23/08](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

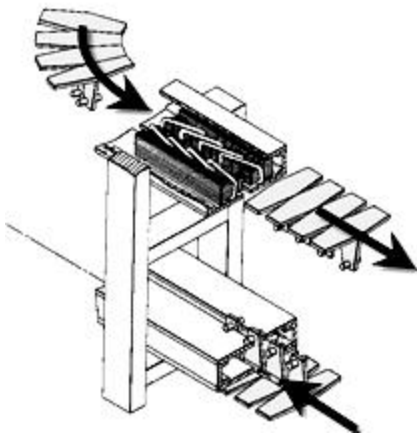


B65G 23/23**of electric linear motors****Definition statement**

This place covers:

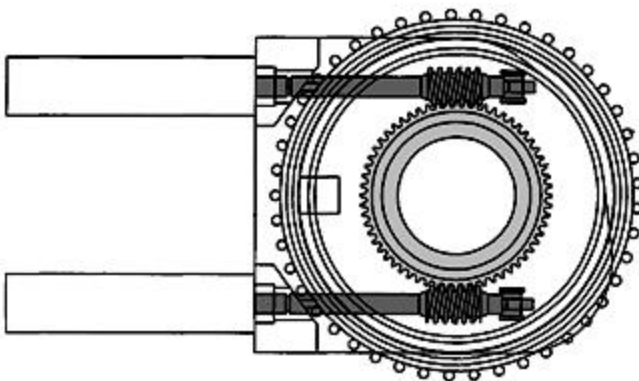
The belt or chain is driven as a load propelled by the reactive means of the electric linear motor.

Illustrative example of subject matter classified in this group:

**B65G 23/24**
**Gearing between driving motor and belt- or chain-engaging elements
(contained in drums, rollers or wheels [B65G 23/08](#))**
Definition statement

This place covers:

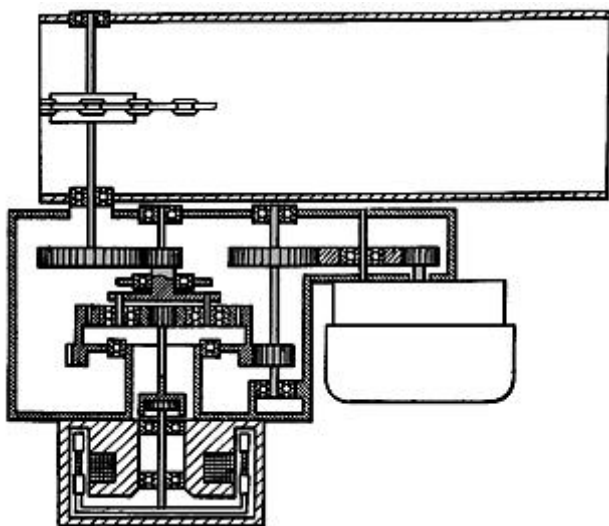
Illustrative example of subject matter classified in this group:



B65G 23/26**Applications of clutches or brakes****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

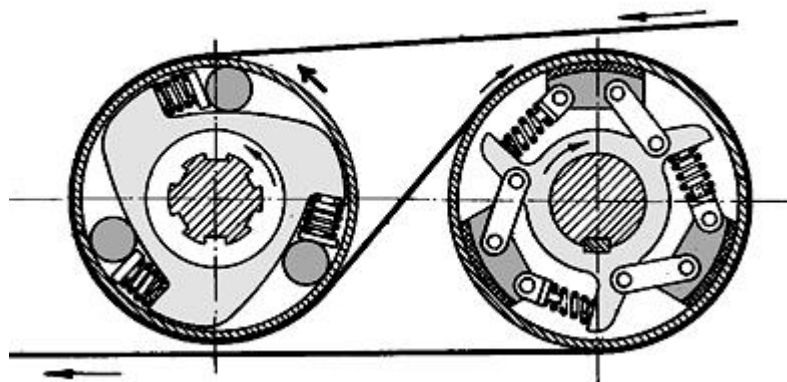
Attention is drawn to the following places, which may be of interest for search:

Emergency stop	B65G 43/06
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B65G 23/28**Arrangements for equalising the drive to several elements****Definition statement**

This place covers:

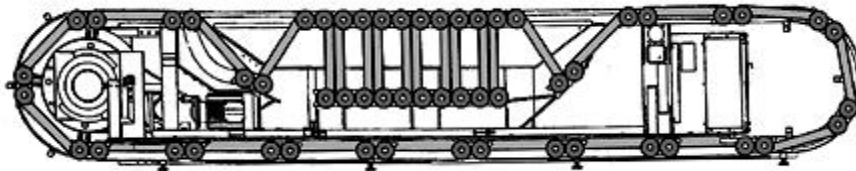
Illustrative example of subject matter classified in this group:



B65G 23/30**Variable-speed gearing****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

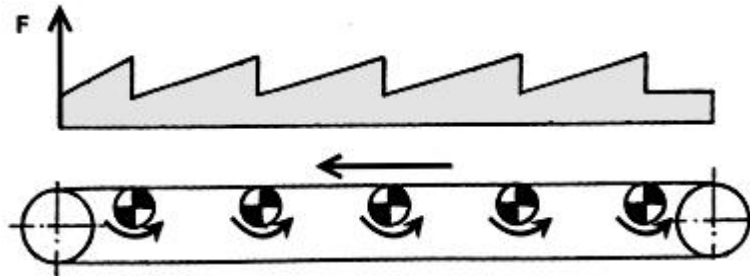
**B65G 23/32**

for effecting drive at two or more points spaced along the length of the conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

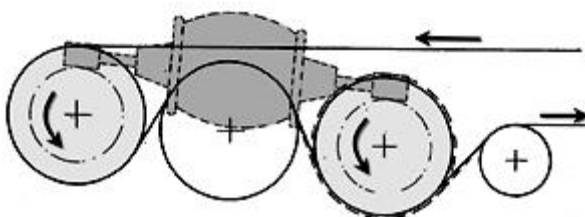
**B65G 23/34**

comprising a single motor coupled to spaced driving elements

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



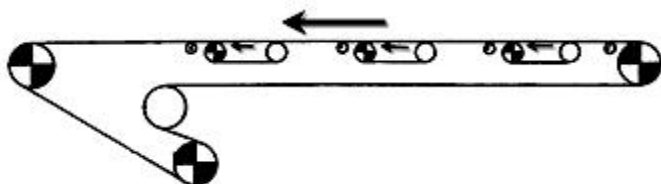
B65G 23/36

comprising two or more driving motors each coupled to a separate driving element, e.g. at either end of the conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

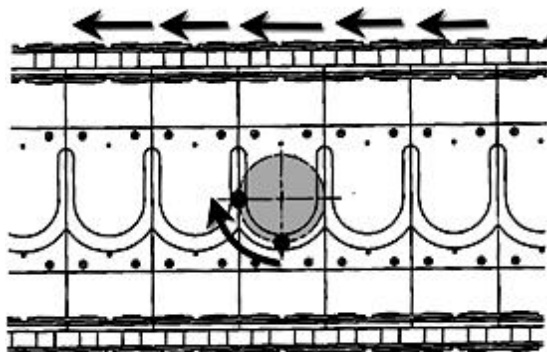
**B65G 23/38**

for effecting intermittent movement of belts or chains

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

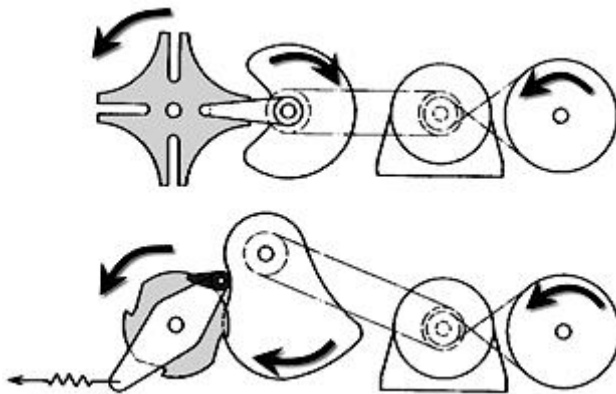
This place does not cover:

Driving screws	B65G 23/20
----------------	----------------------------

B65G 23/40**Applications of pawl and ratchet mechanisms or Geneva wheels****Definition statement**

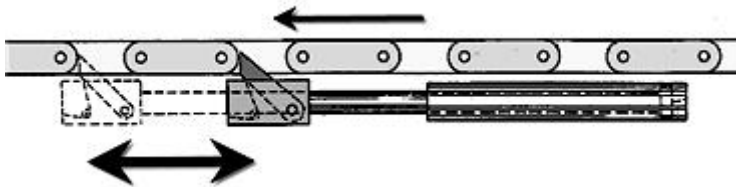
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 23/42****Reciprocating members engaging successive abutments on belts or chains****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

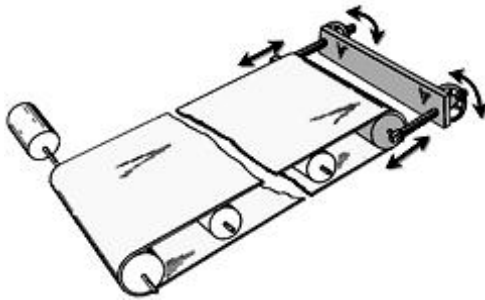
This place does not cover:

Driving wheel	B65G 23/38
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B65G 23/44**Belt or chain tensioning arrangements****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Aligning belts or chains	B65G 39/16
Saw chains	B27B 17/14
Driving ropes, V-belts, chains	F16H 7/08
In Xerox printers	G03G 15/1615
Electrography	G03G 2215/00156

B65G 25/00

Conveyors comprising a cyclically-moving, e.g. reciprocating, carrier or impeller which is disengaged from the load during the return part of its movement ([jigging B65G 27/00](#))

References**Limiting references**

This place does not cover:

Jigging conveyors	B65G 27/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Loading or unloading	B65G 65/00
Walking beam conveyors	B65G 2812/09
Conveyors with reciprocating means	B65G 2812/12

Special rules of classification

This group is dedicated to conveyors with substantial paths of movement in contrast to [B65G 27/00](#) (jigging conveyors).

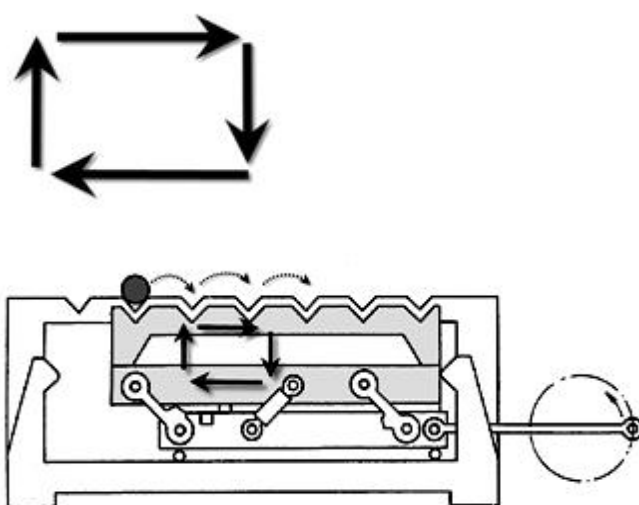
B65G 25/02

the carrier or impeller having different forward and return paths of movement, e.g. walking beam conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Vertical transfer	B65G 35/00
Old technology	B65G 2812/12
Removing chips in a machine tool	B23Q 11/0057

B65G 25/04

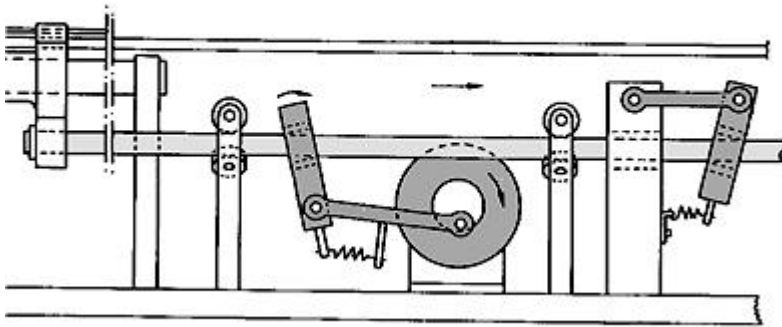
the carrier or impeller having identical forward and return paths of movement, e.g. reciprocating conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Old technology	B65G 2812/09
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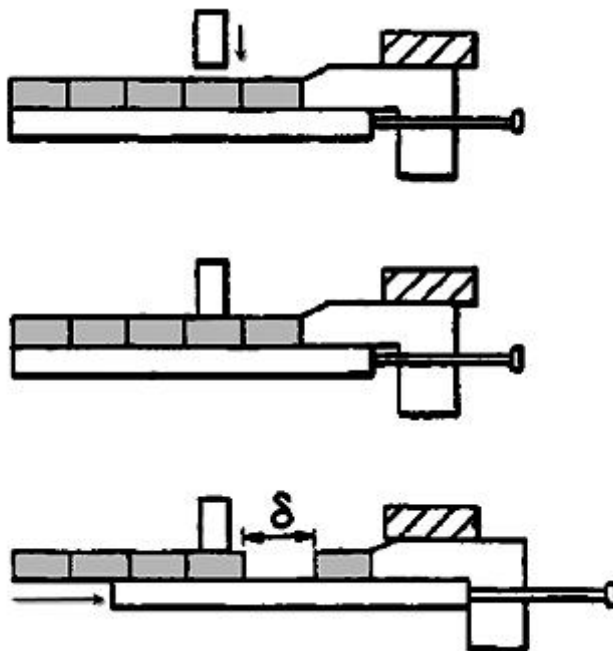
B65G 25/06

having carriers, e.g. belts

Definition statement

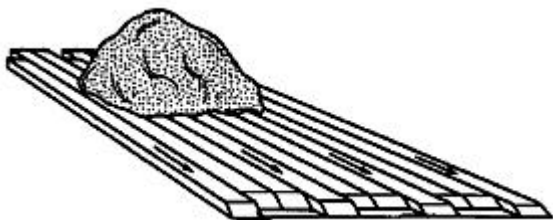
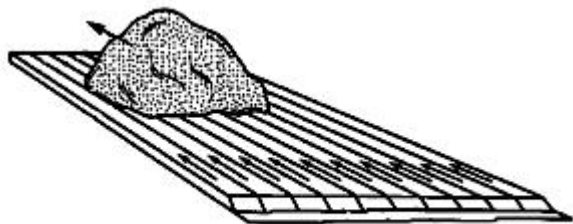
This place covers:

Illustrative example of subject matter classified in this group:

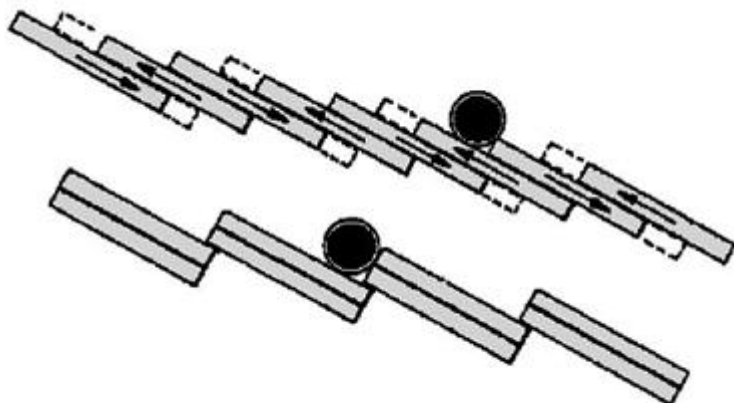


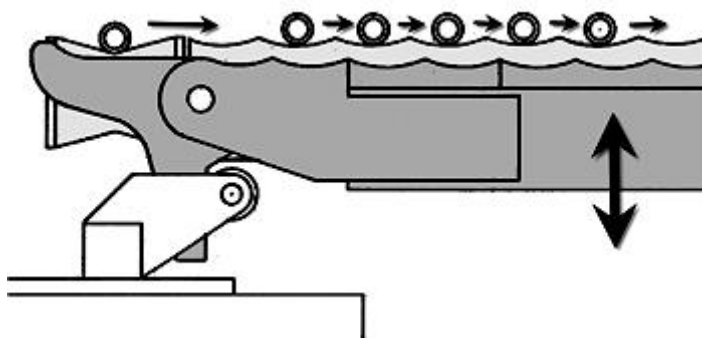
B65G 25/065**{Reciprocating floor conveyors}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 25/08****having impellers, e.g. pushers****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for feeding articles or materials to conveyors (Movement in one direction, substantially outwards)	B65G 47/1471
By means of pick-up devices, the container remaining immobile	B65G 47/1478
Vertically reciprocating carriers with inclined surfaces to roll articles to the next stop	B65G 47/266

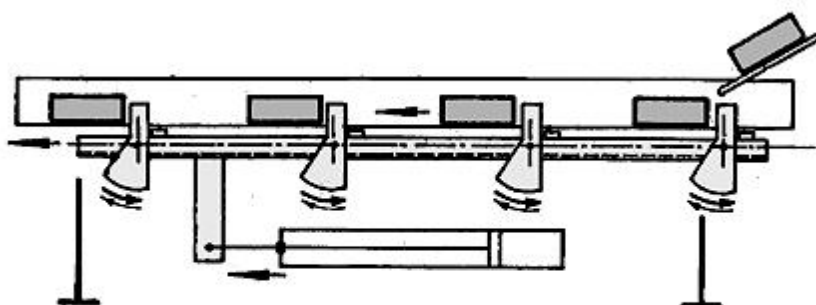
B65G 25/10

with impeller pivotally mounted on a reciprocating bar

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



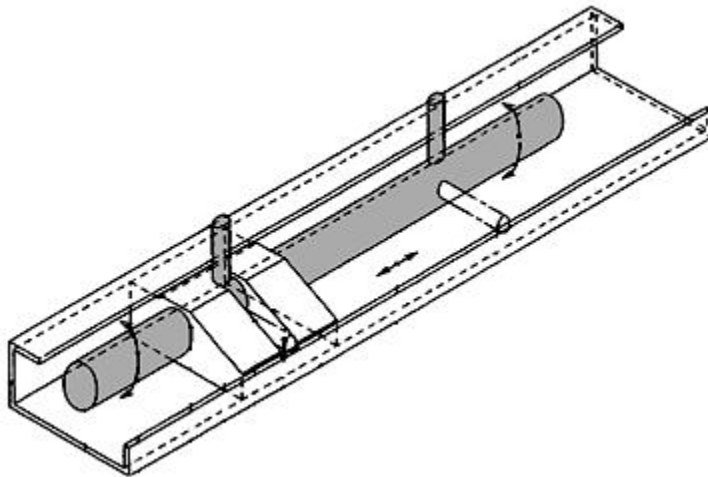
B65G 25/12

with impeller fixed to a reciprocating bar and the bar being rotated about its longitudinal axis on its return stroke

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

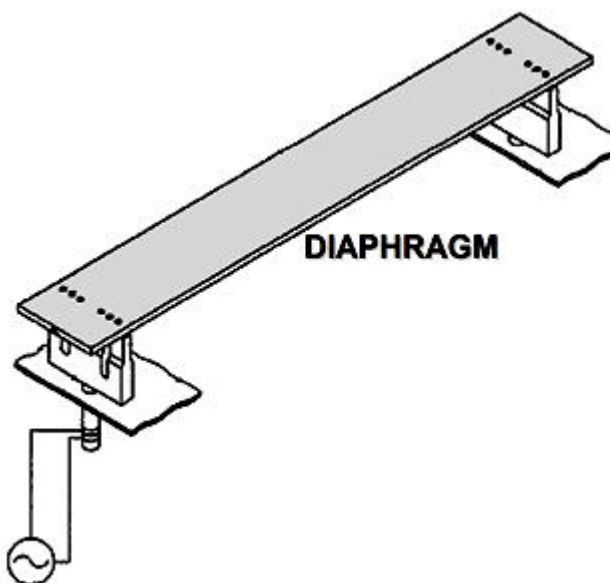
**B65G 27/00**

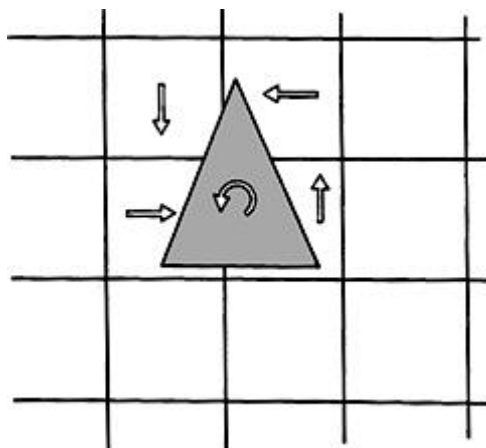
Jigging conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Jigs for wet separation	B03B
Jiggers for screening, sifting or sorting	B07B 1/28

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Loading or unloading	B65G 65/00
Vibrating conveyors	B65G 2812/03 - B65G 2812/0396
Generating or transmitting mechanical vibrations	B06

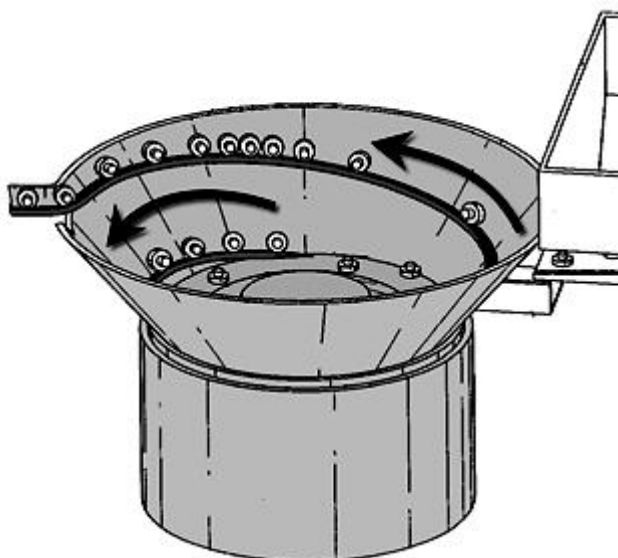
B65G 27/02

comprising helical or spiral channels or conduits for elevation of materials

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

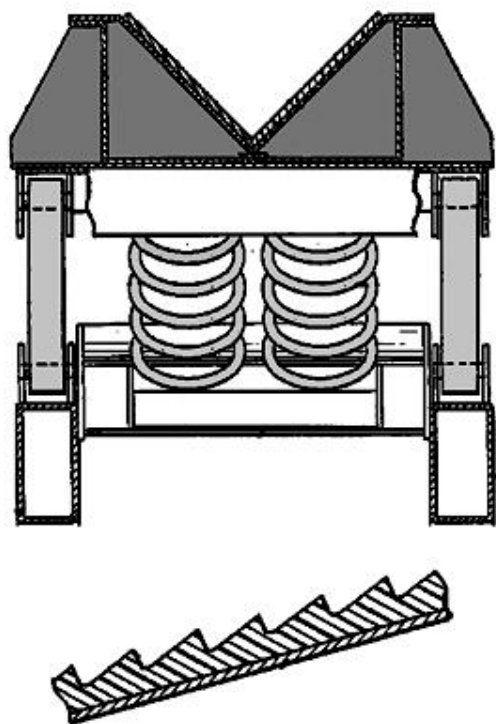
Attention is drawn to the following places, which may be of interest for search:

Helical or spiral chutes in general	B65G 11/06
Use of such conveyors for arranging or orientating articles during feeding	B65G 47/1421

B65G 27/04**Load carriers other than helical or spiral channels or conduits****Definition statement**

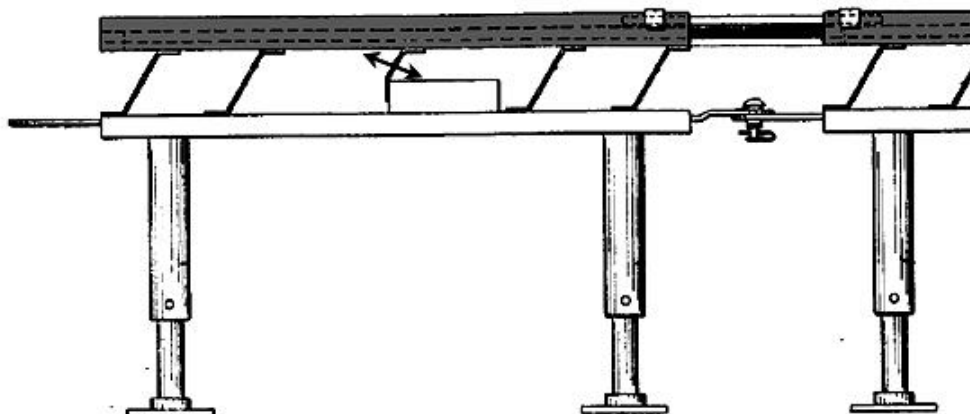
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 27/06****Joints connecting load-carrier sections****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



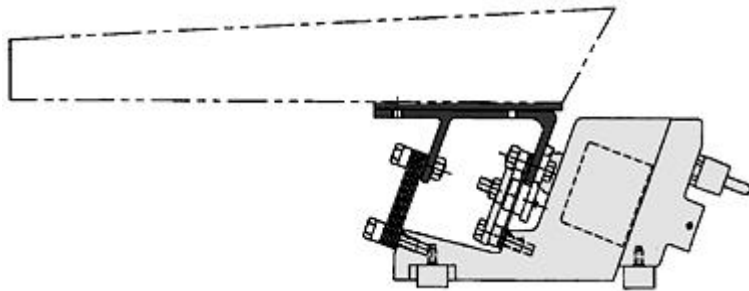
B65G 27/08

Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jiggling movement transmitting units [B65G 27/10](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



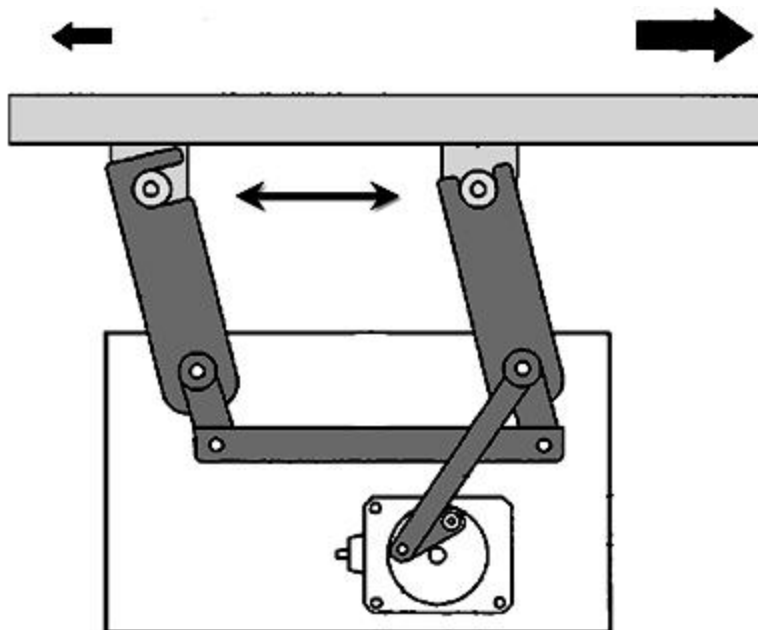
B65G 27/12

of shaking devices, i.e. devices for producing movements of low frequency and large amplitude

Definition statement

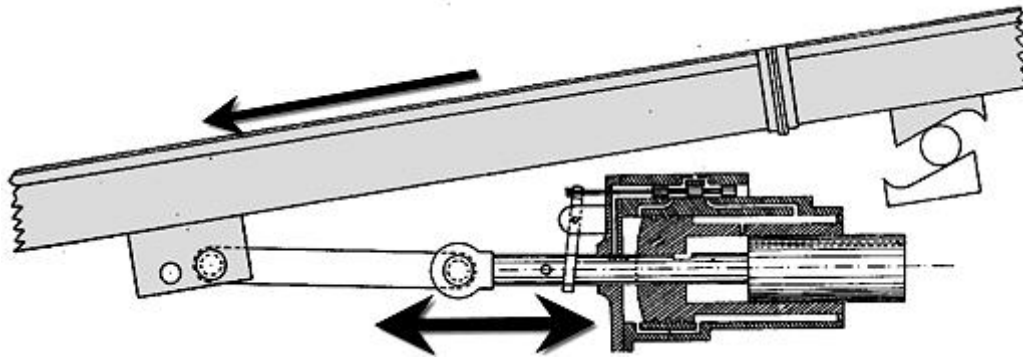
This place covers:

Illustrative example of subject matter classified in this group:

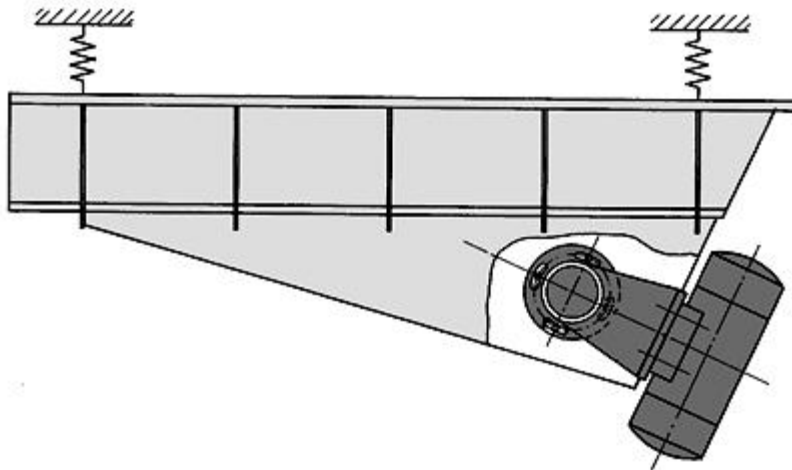


B65G 27/14**hydraulic****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 27/16****of vibrators, i.e. devices for producing movements of high frequency and small amplitude****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.



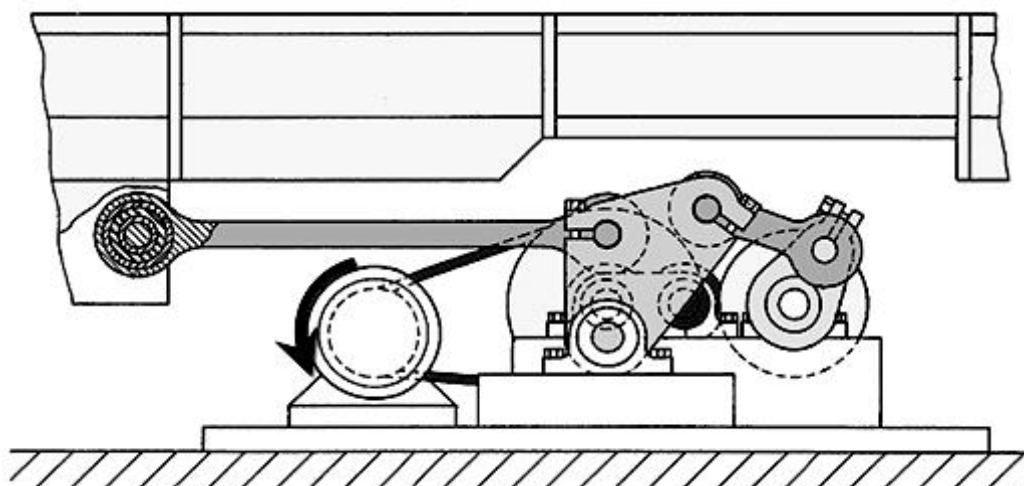
B65G 27/18

Mechanical devices {(B65G 27/26 takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

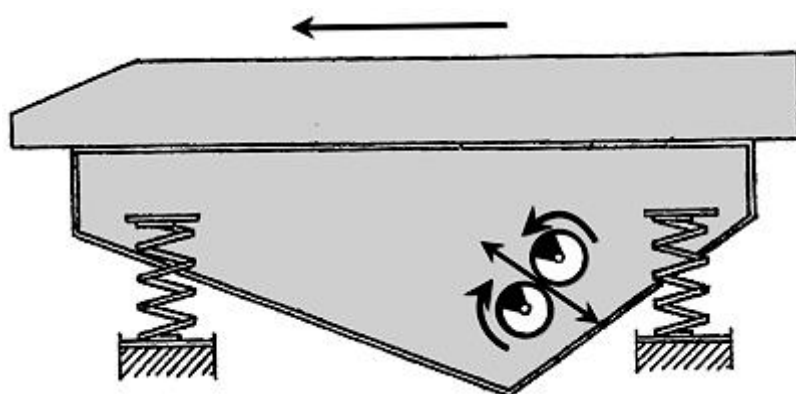
**B65G 27/20**

rotating unbalanced masses

Definition statement

This place covers:

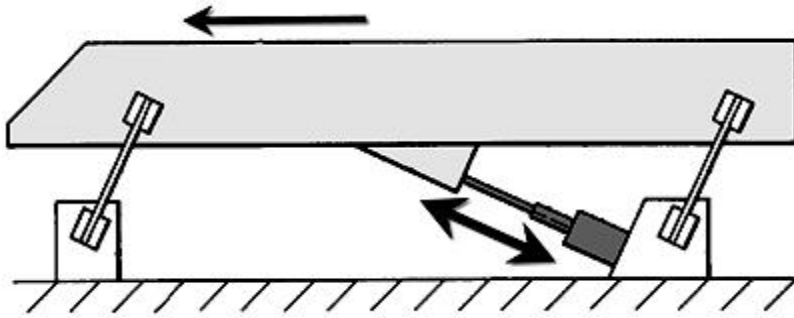
Illustrative example of subject matter classified in this group:



B65G 27/22**Hydraulic or pneumatic devices****Definition statement**

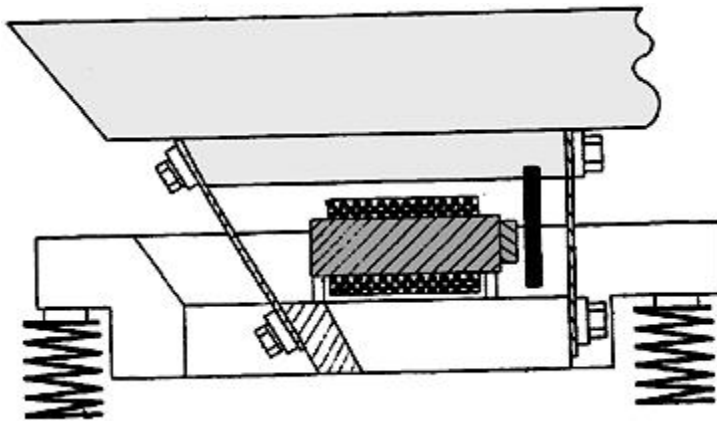
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 27/24****Electromagnetic devices****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



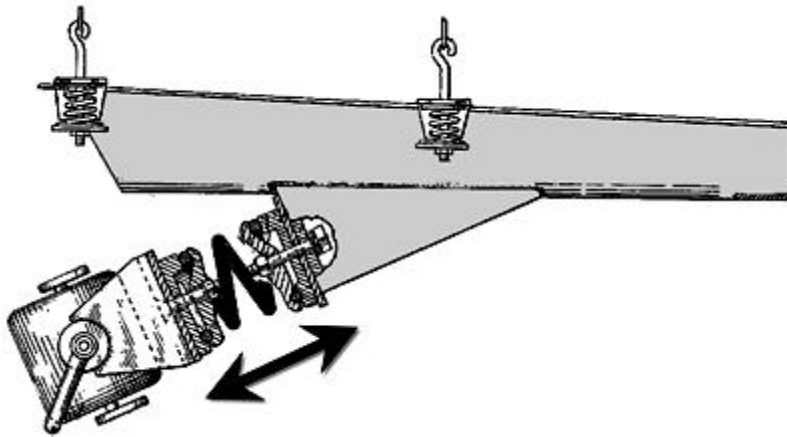
B65G 27/26

with elastic coupling between vibrator and load carrier

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

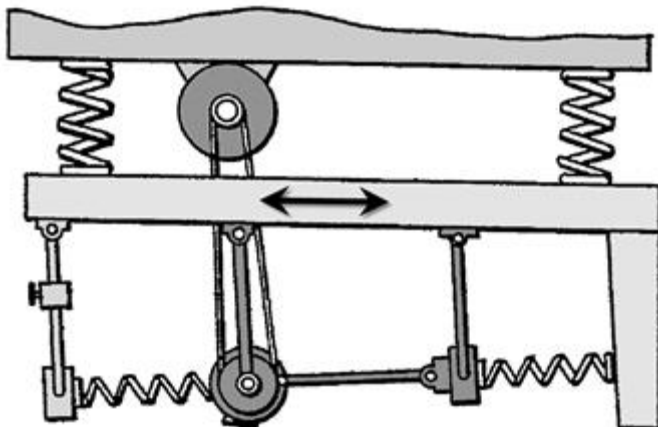
**B65G 27/28**

with provision for dynamic balancing

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



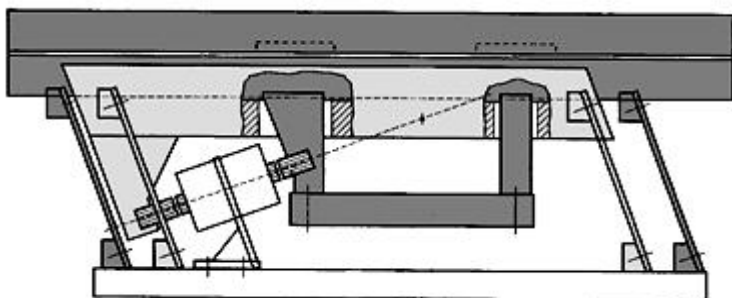
B65G 27/30

by means of an oppositely-moving mass, e.g. a second conveyor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

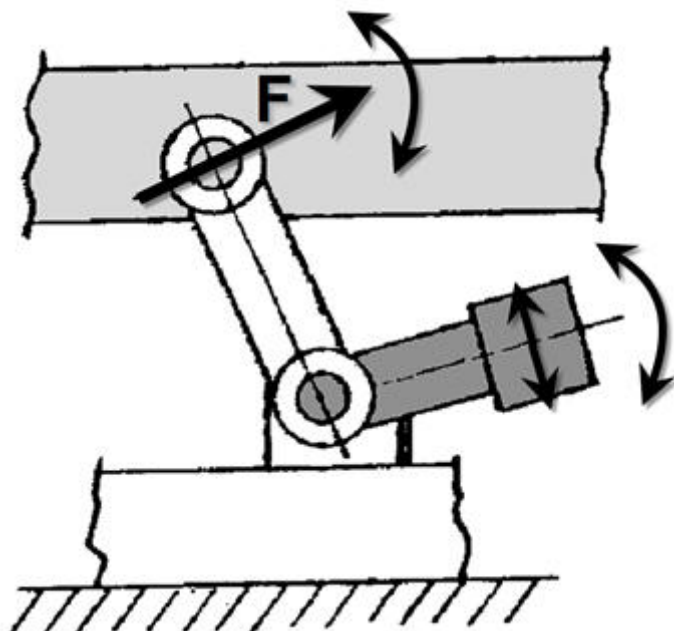
**B65G 27/32**

with means for controlling direction, frequency or amplitude of vibration or shaking movement

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



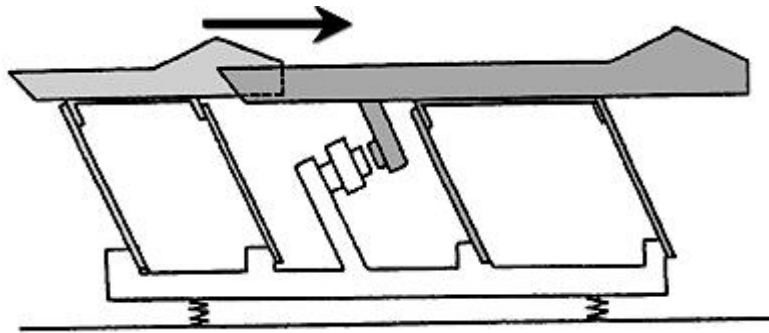
B65G 27/34

comprising a series of co-operating units

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

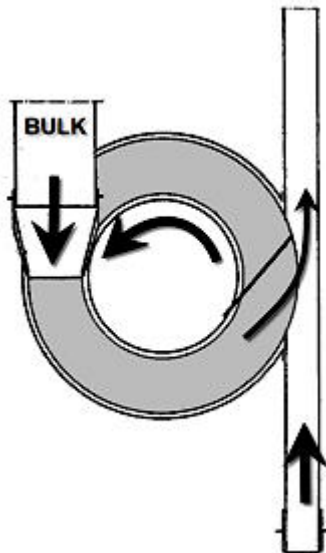
**B65G 29/00**

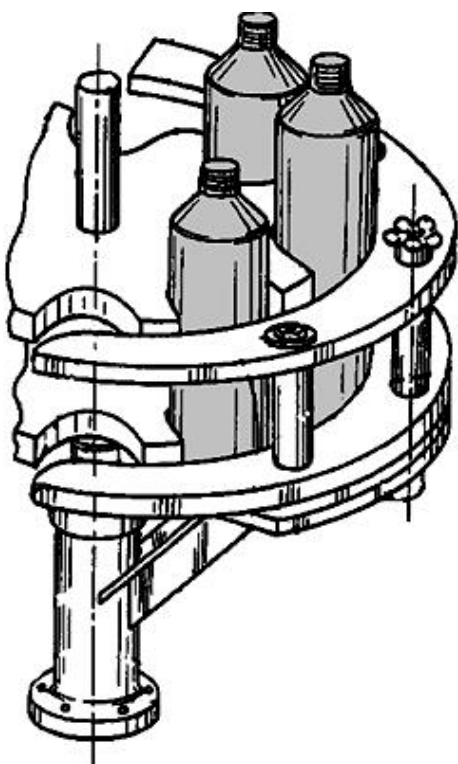
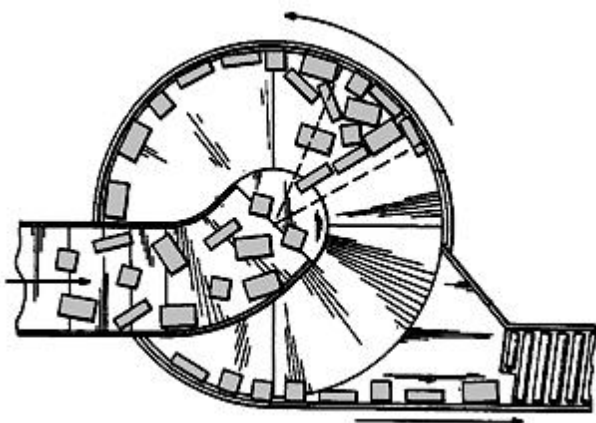
Rotary conveyors, e.g. rotating discs, arms, star-wheels or cones (mechanical projectors [B65G 31/00](#); screw or rotary spiral conveyors [B65G 33/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Mechanical projectors	B65G 31/00
Screw or rotary spiral conveyors	B65G 33/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Turntables as feeding, transfer or discharging devices	B65G 47/80
Starwheels as feeding, transfer or discharging devices	B65G 47/84
For articles	B65G 47/846

Loading or unloading	B65G 65/00
Turntable	B65G 2812/14

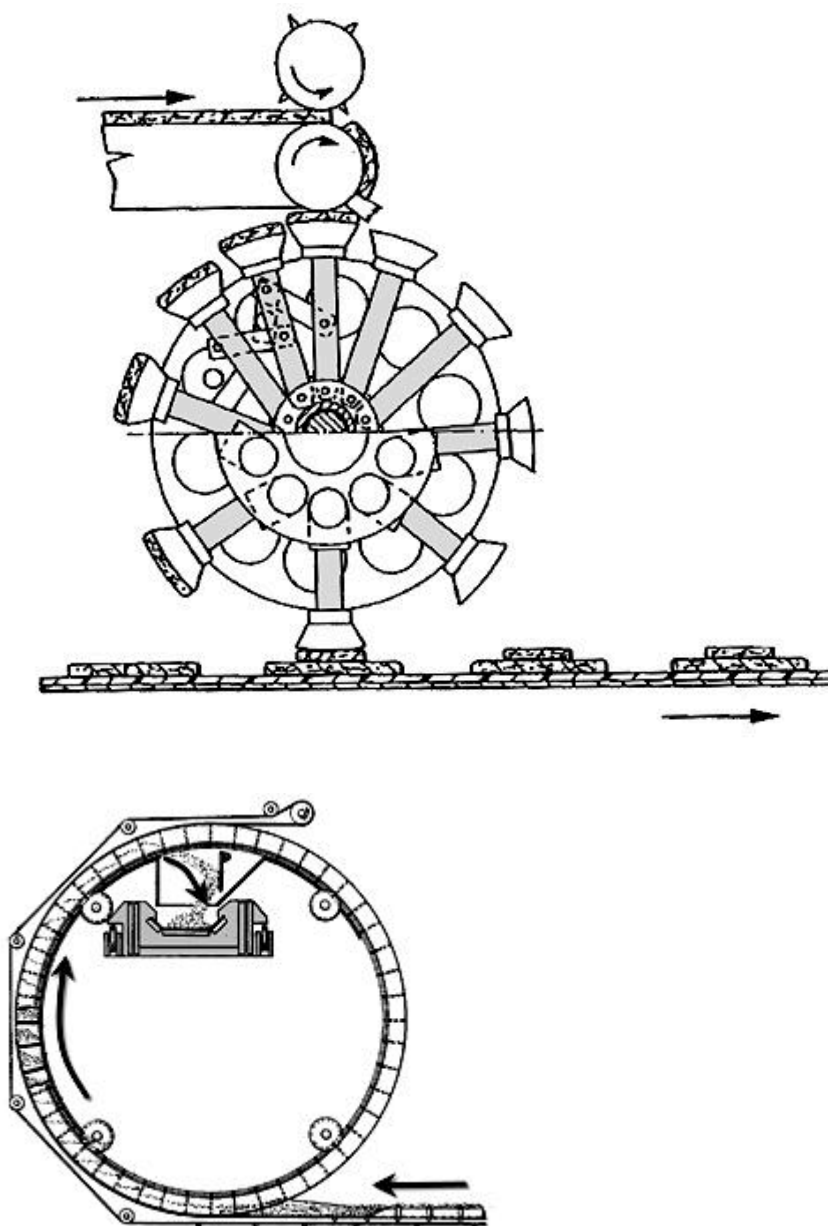
B65G 29/02

for inclined or vertical transit

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Series of wheels	B65G 35/00
For articles	B65G 47/846

B65G 31/00

Mechanical throwing machines for articles or solid materials

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Distributors for fertilisers	A01C
Moulding machines	B22C
Sandblasting devices	B24C
Implements for applying plaster	E04F 21/06

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Loading or unloading	B65G 65/00

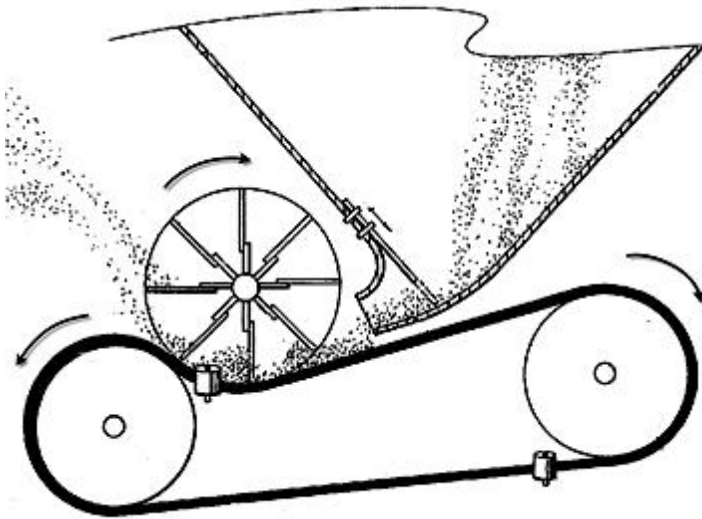
B65G 31/02

comprising belts

Definition statement

This place covers:

Illustrative example of subject matter classified in this group



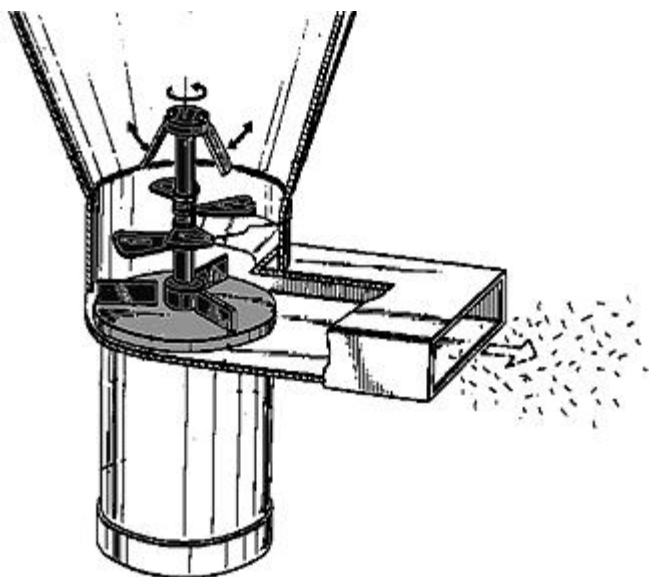
B65G 31/04

comprising discs, drums, or like rotary impellers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 33/00**Screw or rotary spiral conveyors****References****Informative references**

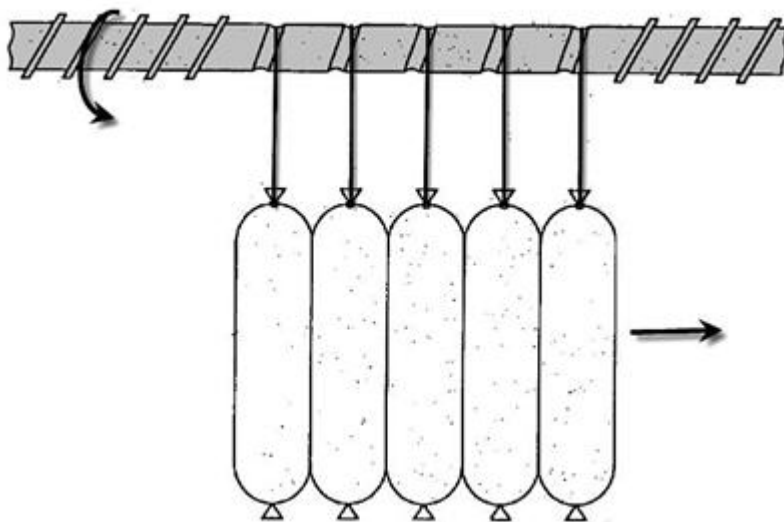
Attention is drawn to the following places, which may be of interest for search:

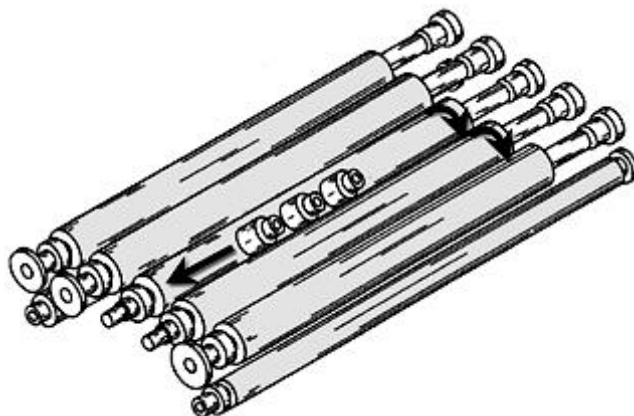
Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Loading or unloading	B65G 65/00
Screws for extruding, compressing, kneading, mixing, pumping, or other special operations	B01F 27/00 , B29C 48/395 , F04D
Making helical bodies	B21H 3/00
Dewatering	B30B 9/12
Screw-press for dewatering solid material	B30B 11/00 , C02F 11/00

B65G 33/02**for articles****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Carriers	B65G 35/063
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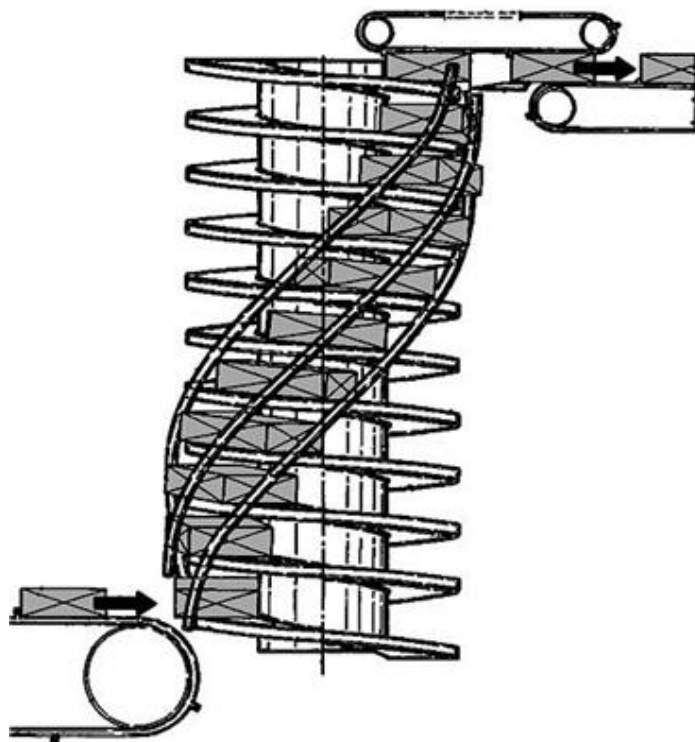
B65G 33/04

conveyed between a single screw and guiding means

Definition statement

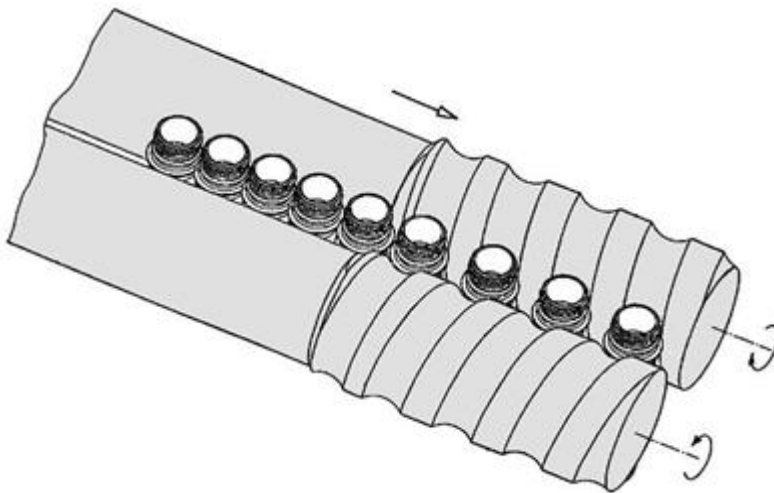
This place covers:

Illustrative example of subject matter classified in this group:

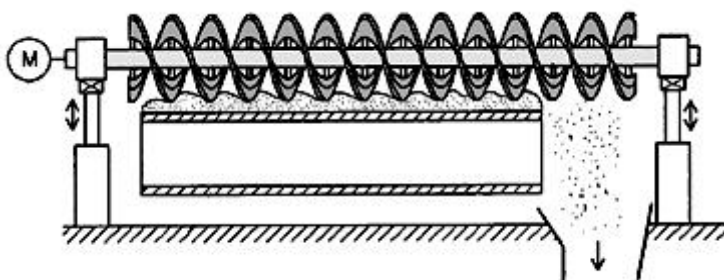


B65G 33/06**conveyed and guided by parallel screws****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 33/10****with non-enclosed screws****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



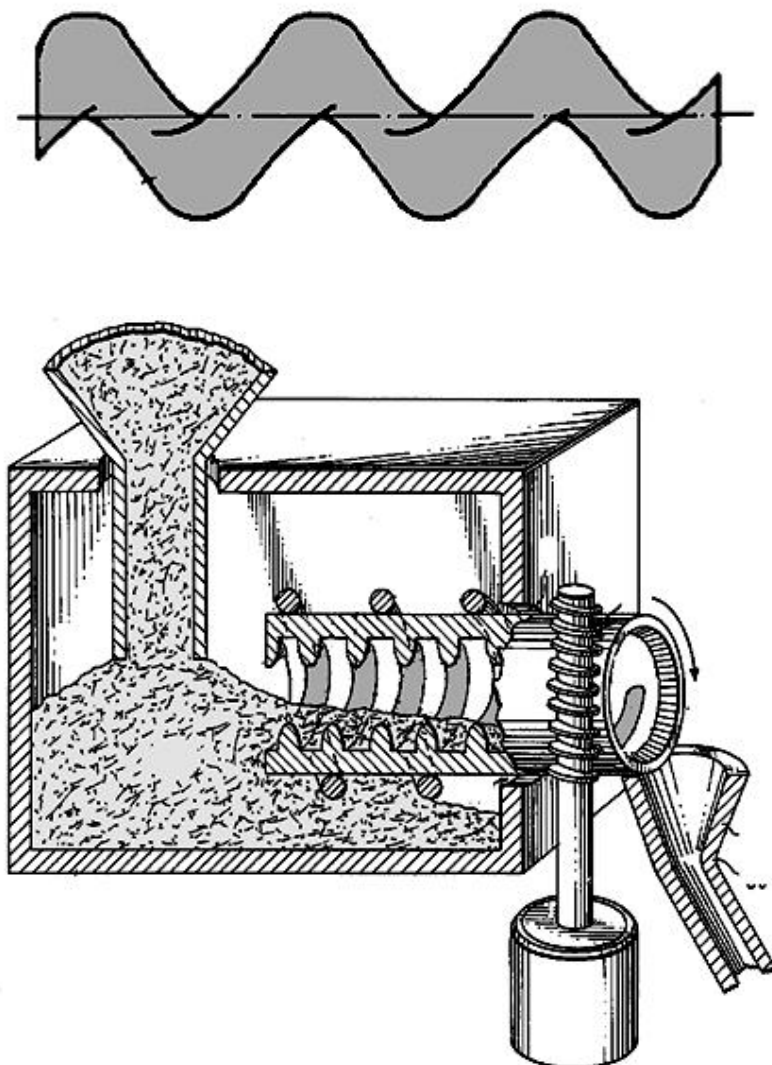
B65G 33/12

with screws formed by straight tubes or drums having internal threads, or by spiral or helical tubes

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rotating tubes for unloading hoppers	B65G 65/489
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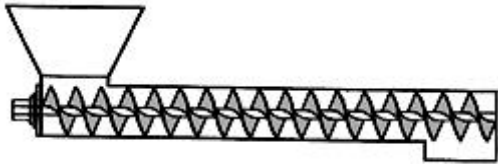
B65G 33/14

comprising a screw or screws enclosed in a tubular housing

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

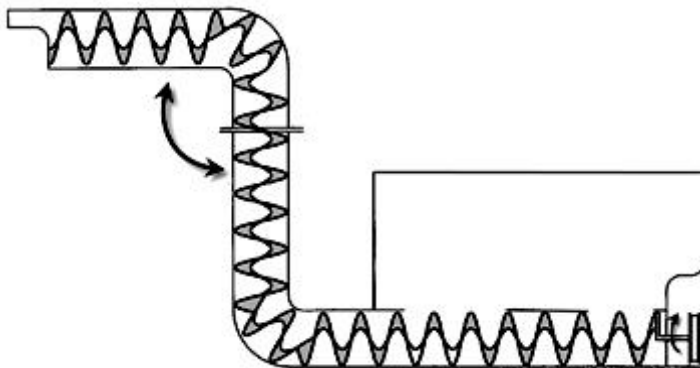
**B65G 33/16**

with flexible screws operating in flexible tubes

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



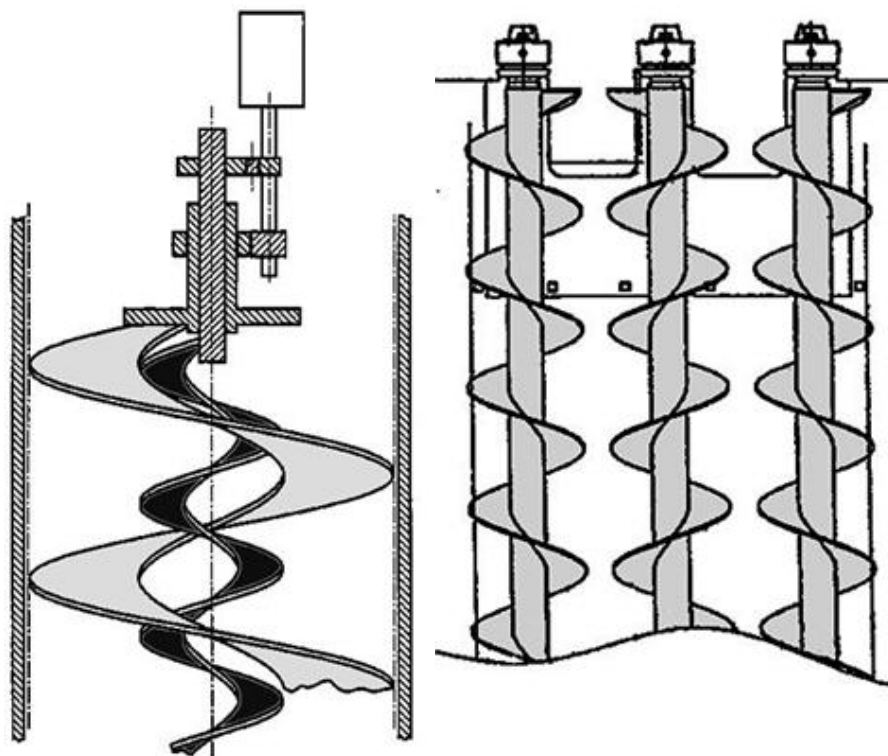
B65G 33/18

with multiple screws in parallel arrangements {, e.g. concentric}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



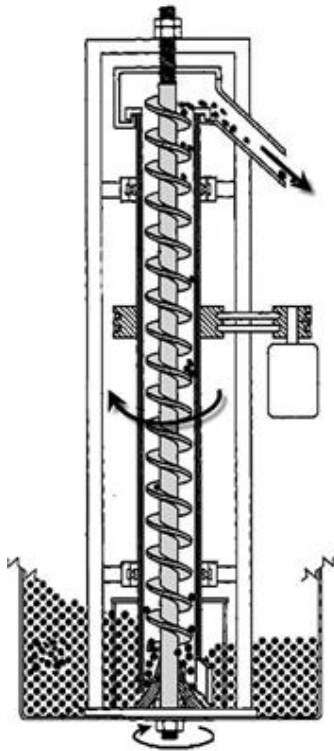
B65G 33/20

the housing being rotatable relative to the screw

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



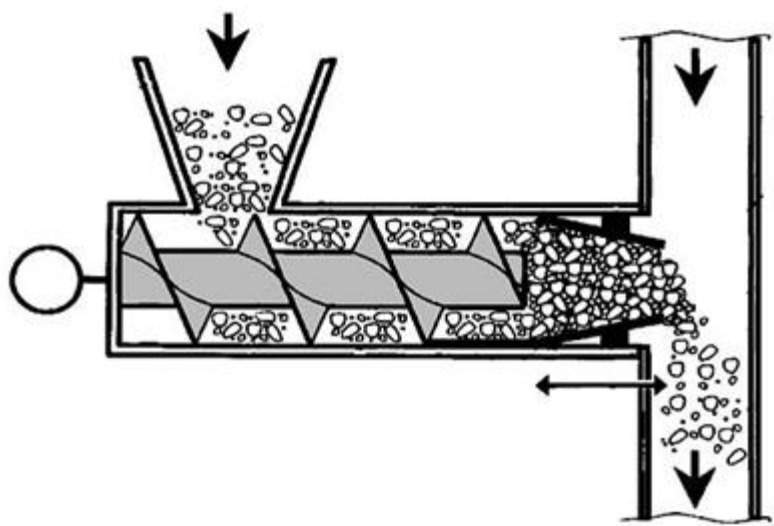
B65G 33/22

with means for retarding material flow at the delivery end of the housing

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



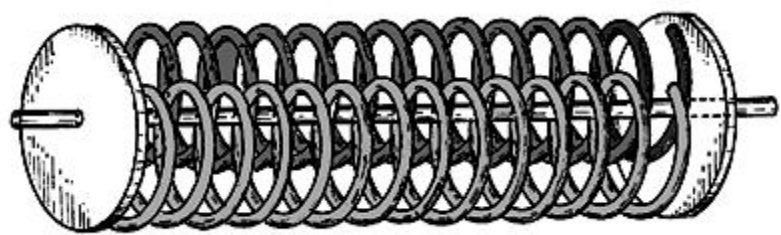
B65G 33/26

Screws

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Manufacture of screws	B21C 37/26
As gearing elements	F16H 25/20

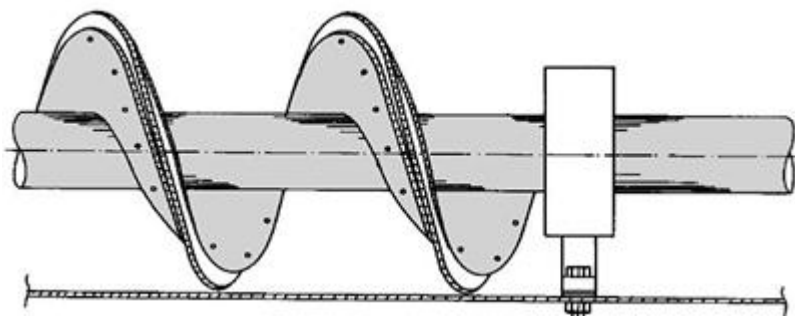
B65G 33/265

{with a continuous helical surface (flexible screws [B65G 33/16](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

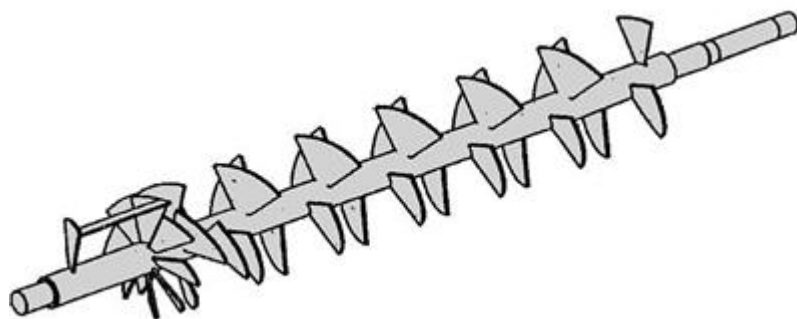
**B65G 33/30**

with a discontinuous helical surface

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



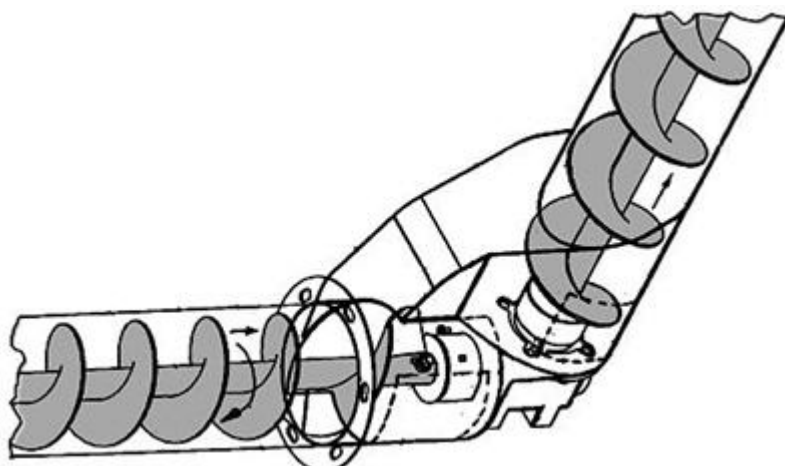
B65G 33/32

Adaptations of bearings or couplings for supporting and connecting screws
([B65G 33/16](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Auger couplers	B60P 1/40
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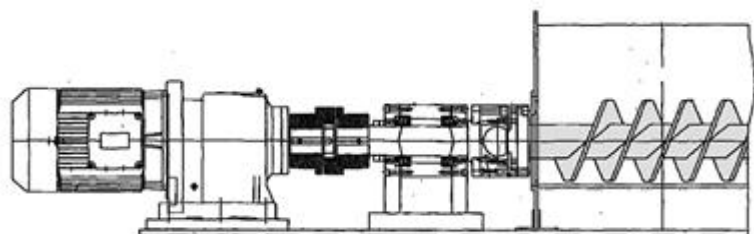
B65G 33/34

Applications of driving gear

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



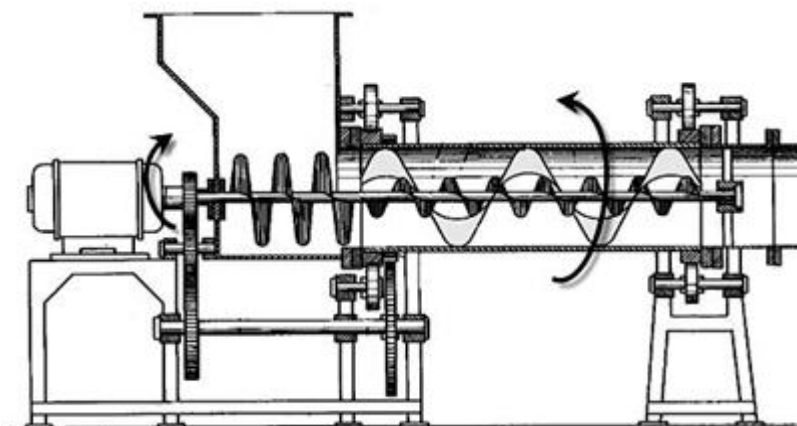
B65G 33/36

for rotating housing and screw at different speeds

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

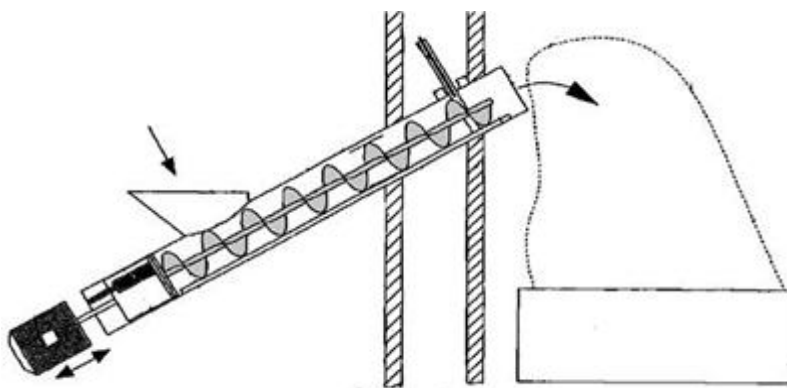
**B65G 33/38**

for effecting simultaneous rotation and reciprocation of screw

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



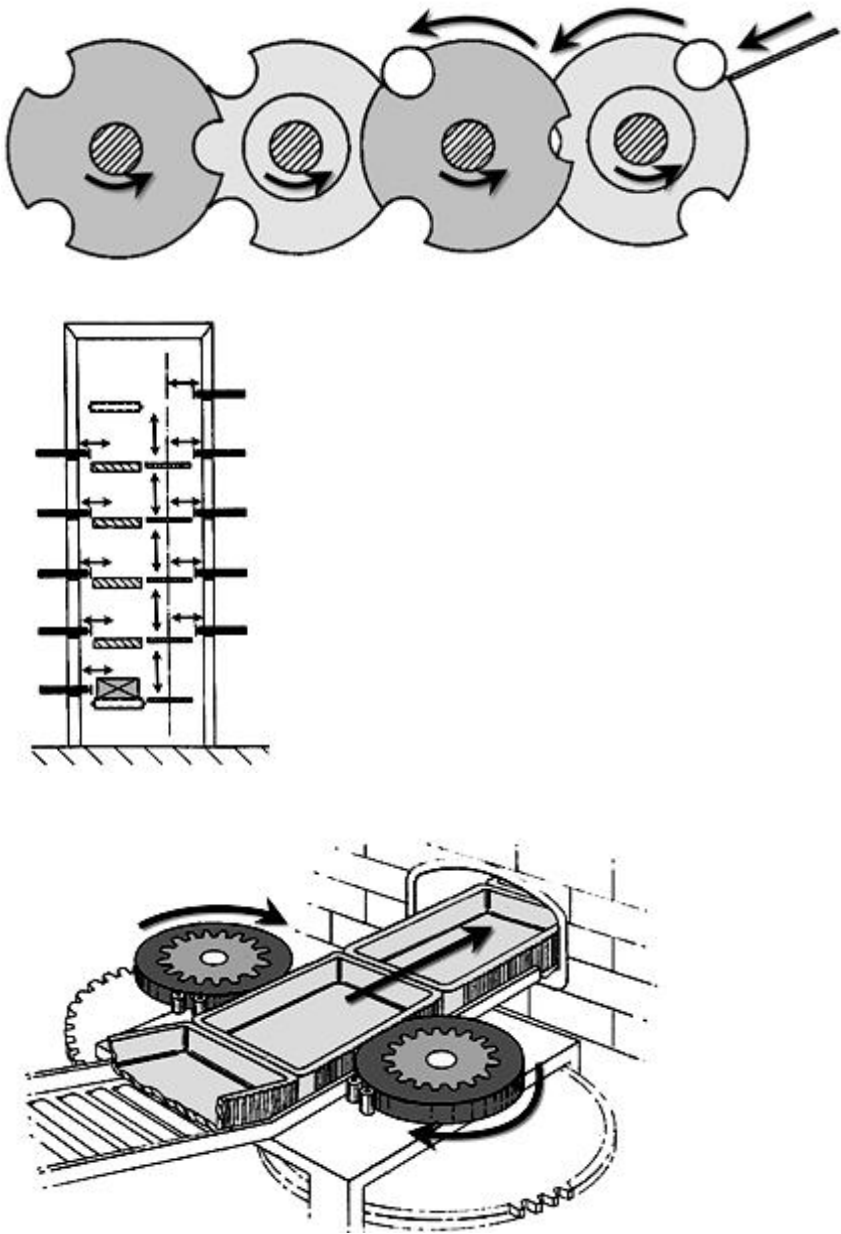
B65G 35/00

Mechanical conveyors not otherwise provided for

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Movement in one direction, substantially outwards	B65G 47/1471

Loading or unloading	B65G 65/00
Railway systems	B61B

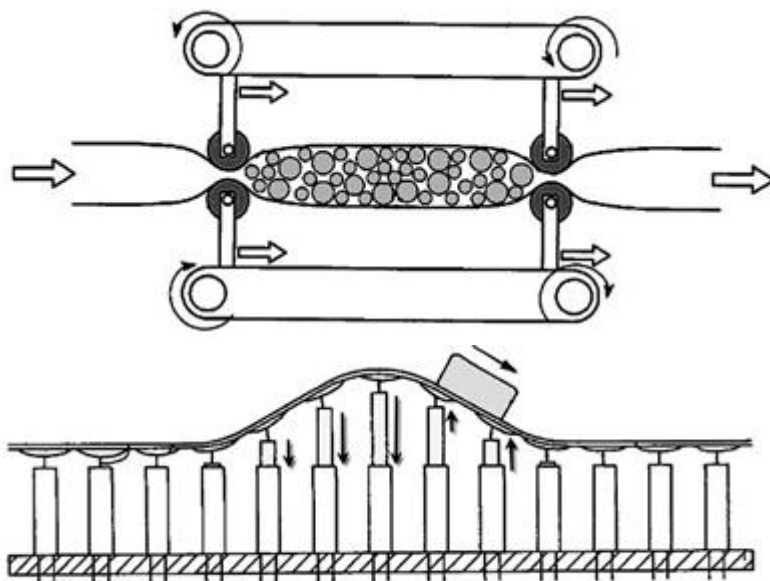
B65G 35/005

{with peristaltic propulsion along a flexible tube}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



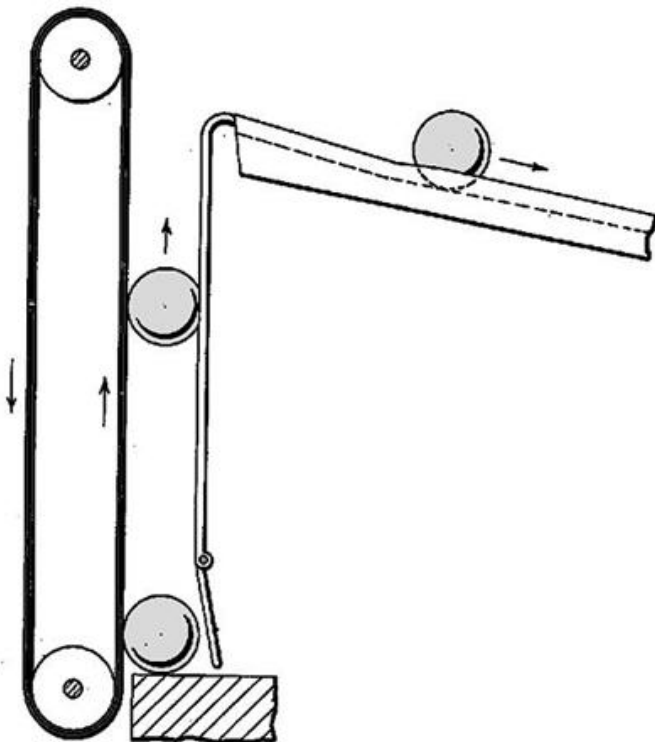
B65G 35/02

comprising an endless traction element, e.g. a belt, arranged to roll cylindrical articles over a supporting surface

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

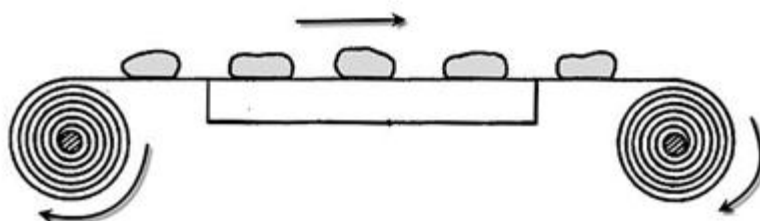
**B65G 35/04**

comprising a flexible load carrier, e.g. a belt, which is wound up at one end and paid out at the other (reciprocating belt conveyors [B65G 25/06](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Reciprocating belt conveyors	B65G 25/06
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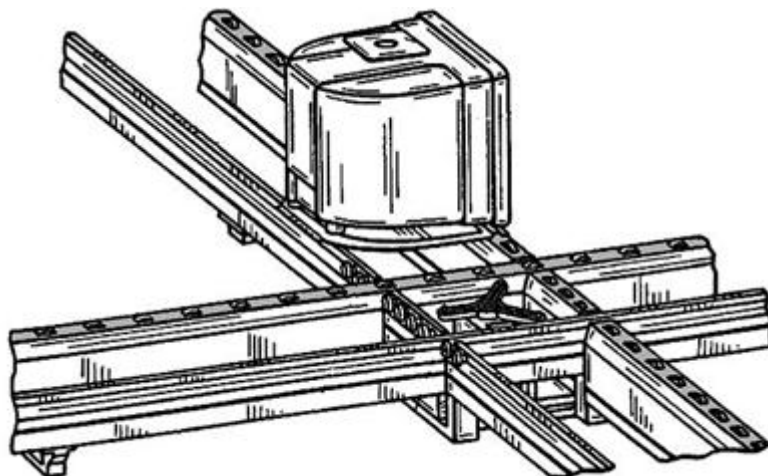
B65G 35/06

comprising a load-carrier moving along a path, e.g. a closed path, and adapted to be engaged by any one of a series of traction elements spaced along the path (effecting drive at two or more points spaced along the length of an endless conveyor [B65G 23/32](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Effecting drive at two or more points spaced along the length of an endless conveyor	B65G 23/32
--	----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising load carriers resting on the traction element	B65G 17/002
Only one traction element in the closed path	B65G 19/02
Details, components, or accessories for machine tools, e.g. arrangements for copying or controlling	B23Q

B65G 35/063

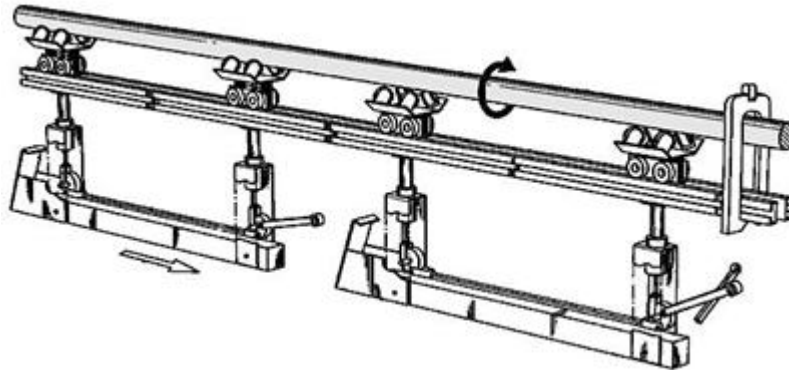
{the traction element being a rotating bar or tube}

Definition statement

This place covers:

Only for independent load carriers.

Illustrative example of subject matter classified in this group:

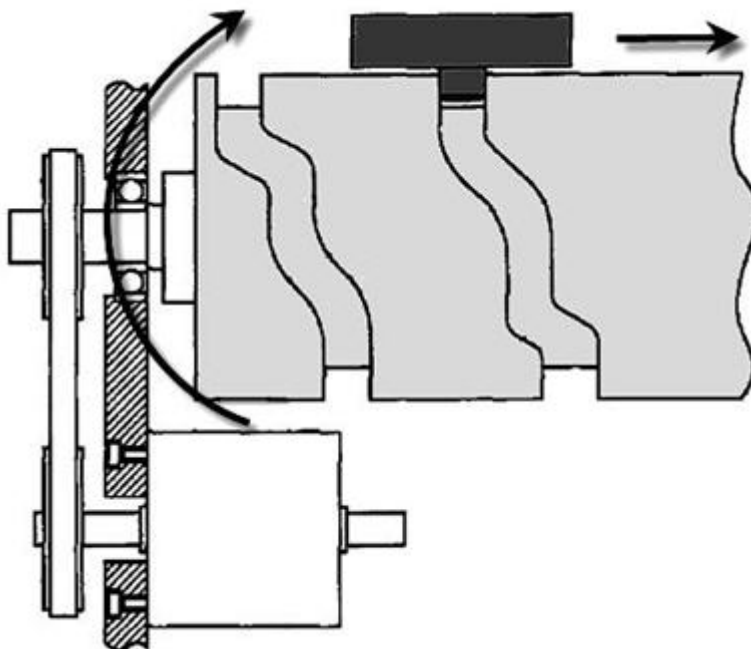
**B65G 35/066**

{the bar or the tube being provided with a helical or annular channel}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 35/08

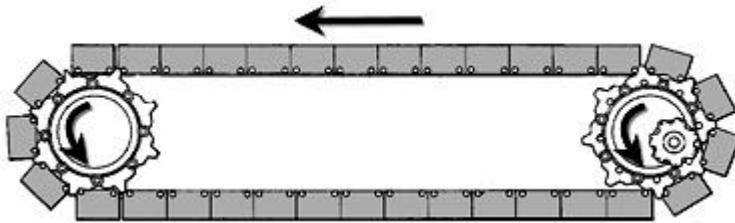
comprising trains of unconnected load-carriers, e.g. belt sections, movable in a path, e.g. a closed path, adapted to contact each other and to be propelled by means arranged to engage each load-carrier in turn

Definition statement

This place covers:

Independent load carriers pushing each other

Illustrative example of subject matter classified in this group:

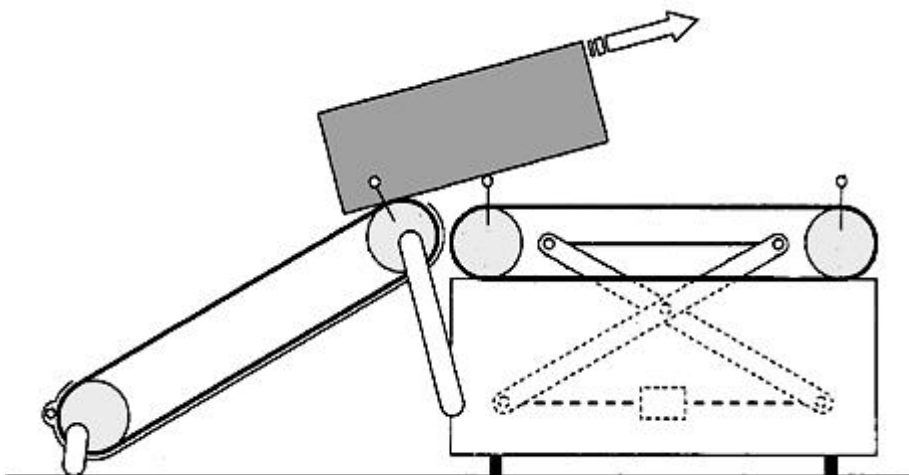
**B65G 37/00**

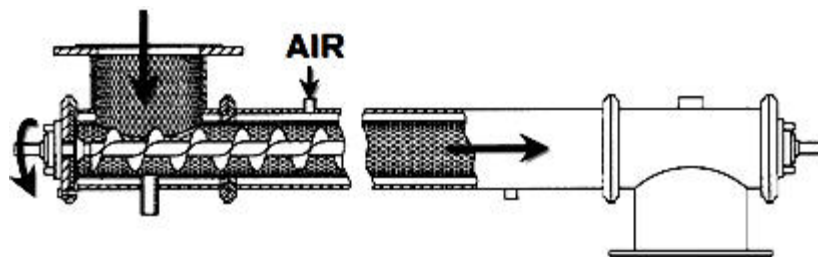
Combinations of mechanical conveyors of the same kind, or of different kinds, of interest apart from their application in particular machines or use in particular manufacturing processes (series of co-operating belt conveyor units [B65G 15/22](#); series of co-operating chain conveyor units [B65G 17/26](#); sequence control of combined conveyors [B65G 43/10](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Series of co-operating belt conveyor units	B65G 15/22
Series of co-operating chain conveyor units	B65G 17/26
Sequence control of combined conveyors	B65G 43/10

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Specially adapted for handling radioactive materials	G21

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mechanical storage devices	B65G 1/04
Loading or unloading	B65G 65/00

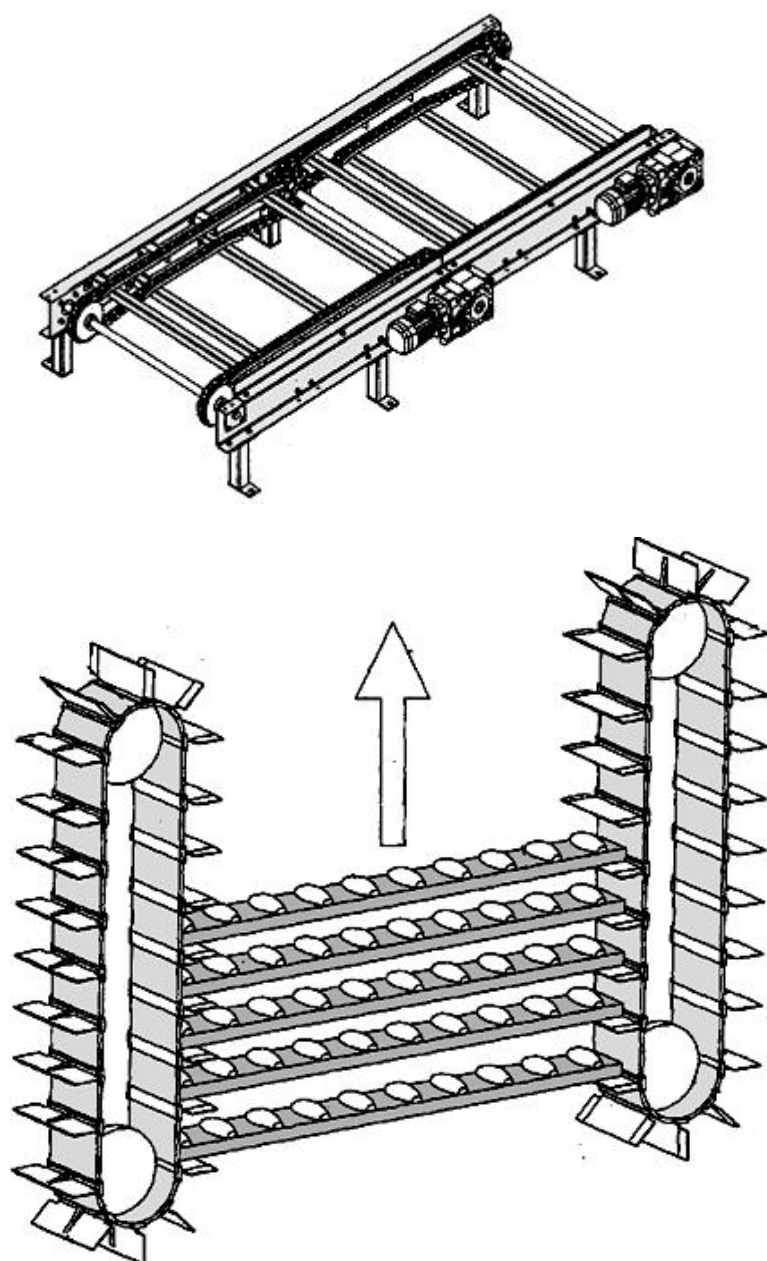
B65G 37/005

{comprising two or more co-operating conveying elements with parallel longitudinal axes (the conveying elements being endless surfaces [B65G 15/10](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Parallel conveying belts, wherein the articles is in direct contact with the belts	B65G 15/10
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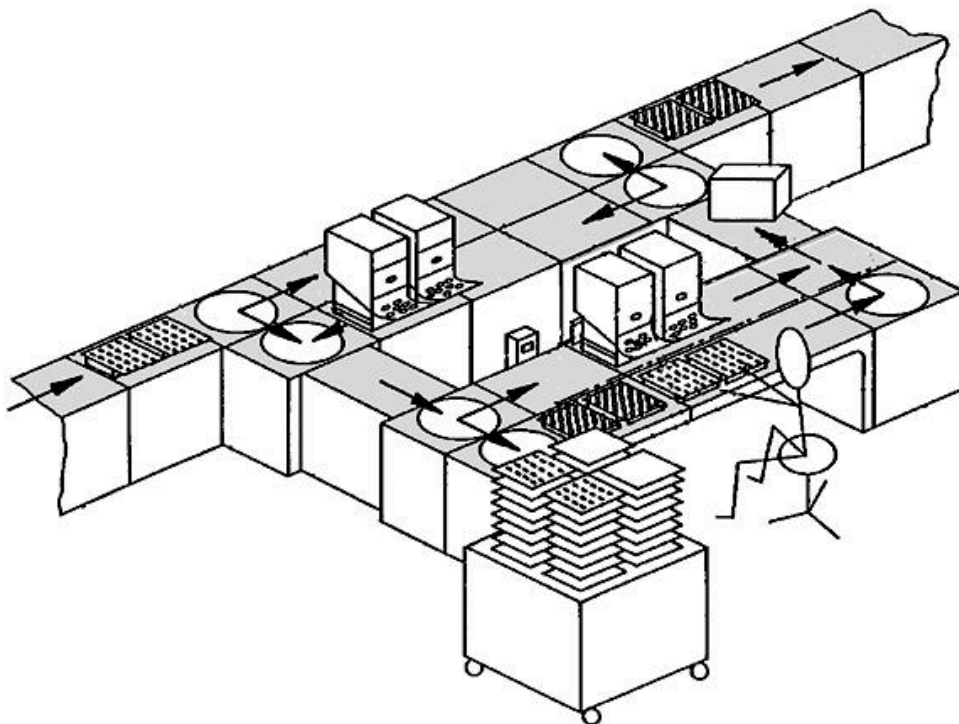
B65G 37/02

Flow-sheets for conveyor combinations in warehouses, magazines or workshops

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



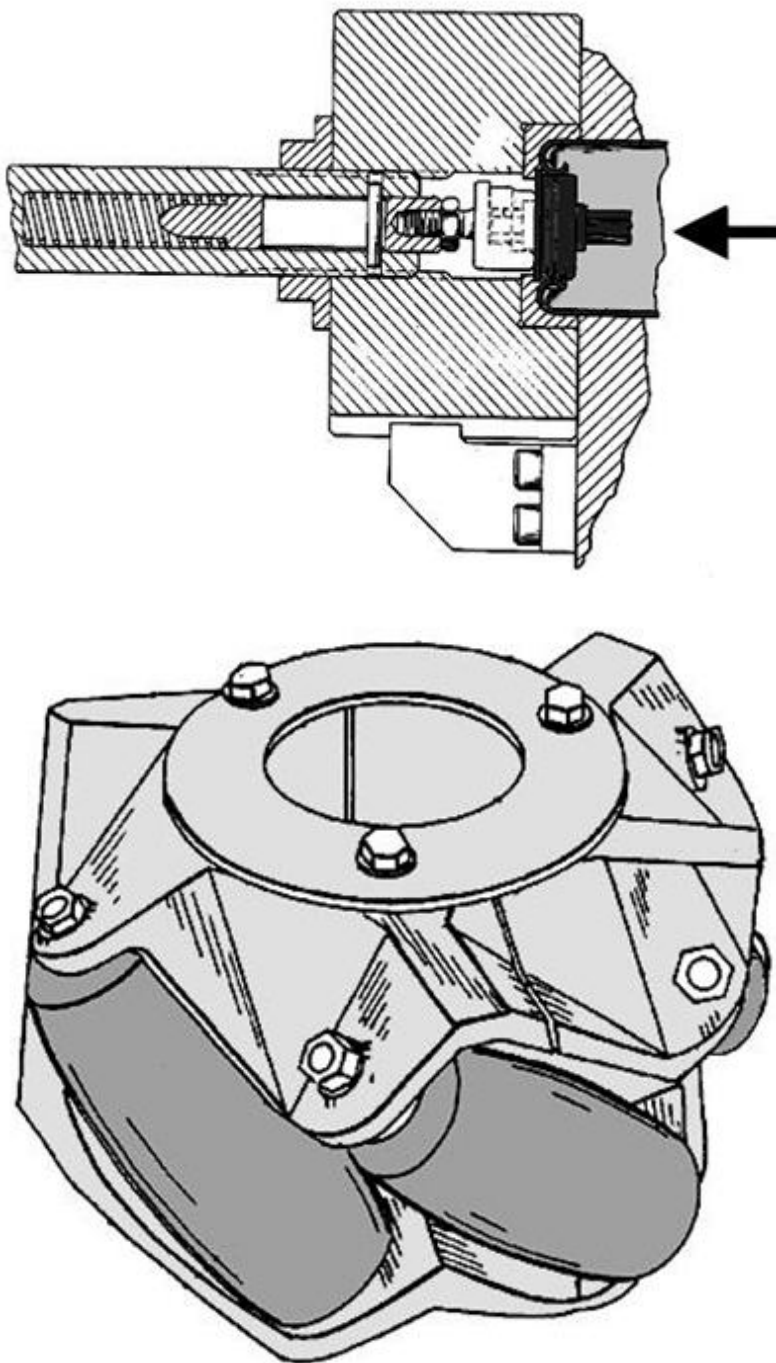
B65G 39/00

Rollers, e.g. drive rollers, or arrangements thereof incorporated in roller-ways or other types of mechanical conveyors (driving gear for rollers of roller-ways [B65G 13/06](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Driving gear for rollers of roller-ways	B65G 13/06
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Drive rollers of endless conveyors	B65G 23/04
Arrangement of rollers in metal-rolling equipment	B21B 39/10

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rollers for facilitating the change of the belt or of a roller of a belt conveyor	B65G 15/00
Omni-rolls	B65G 2207/34
Manufacturing rollers	B29D 99/0032
Safety (e.g. for heat protection, bearing damages)	F16C 19/52
Friction members	F16H 55/32

B65G 39/02

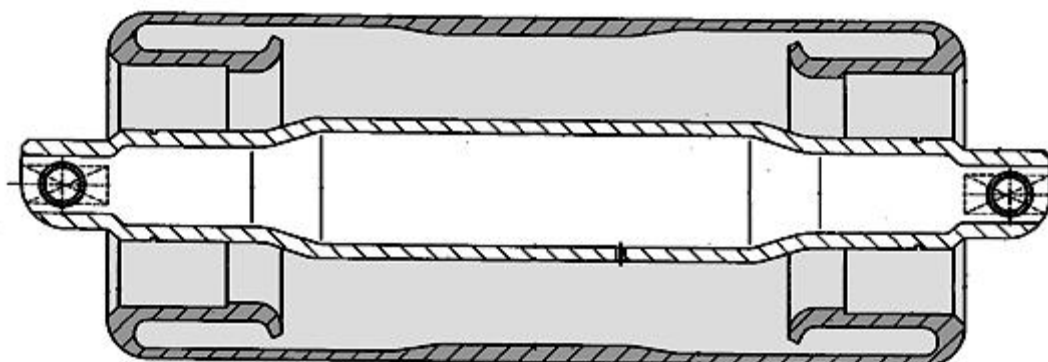
Adaptations of individual rollers and supports therefor

Definition statement

This place covers:

The construction of the roller itself

Illustrative example of subject matter classified in this group:



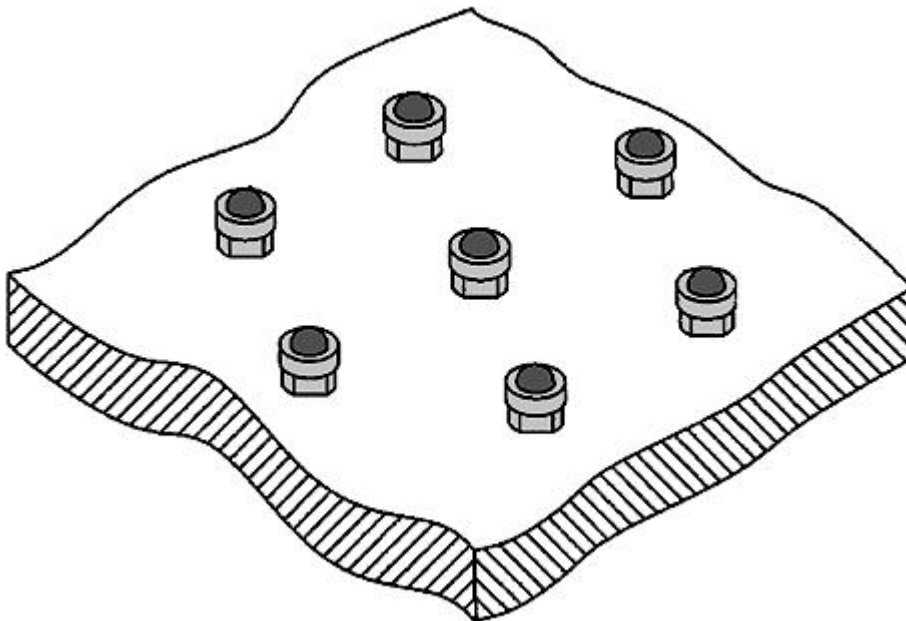
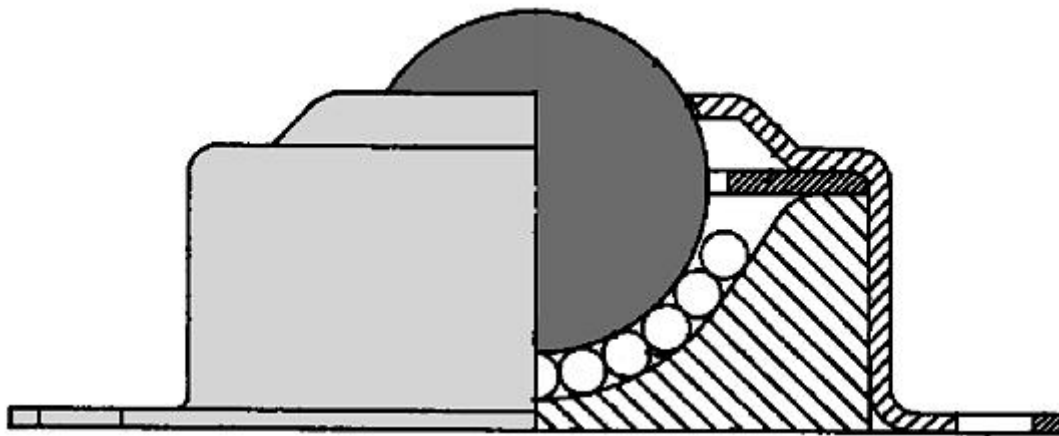
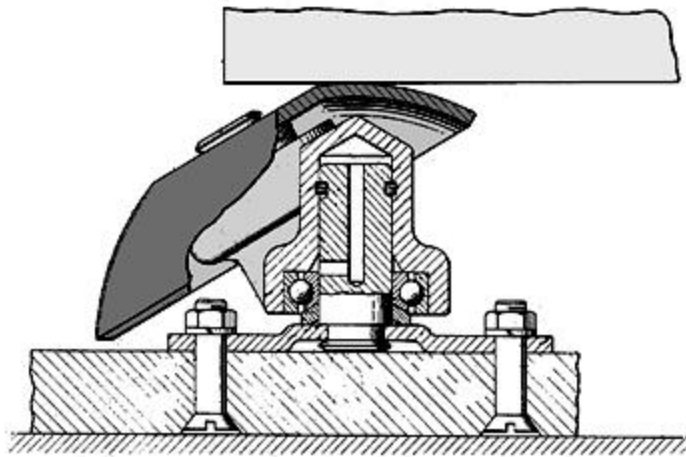
B65G 39/025

{having spherical roller elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



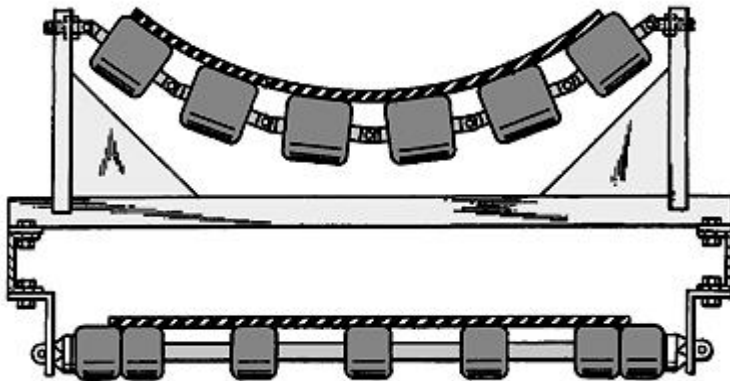
B65G 39/04

the rollers comprising a number of roller forming elements mounted on a single axle

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

For the detail of the roller attachment	B65G 39/02
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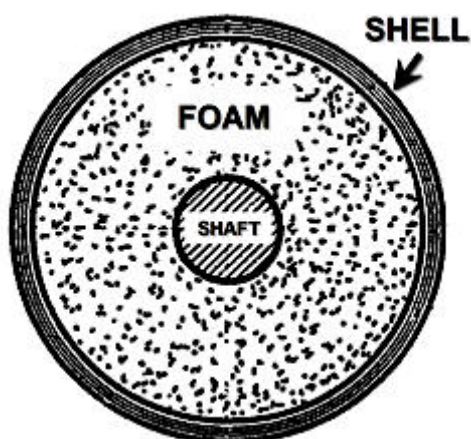
B65G 39/06

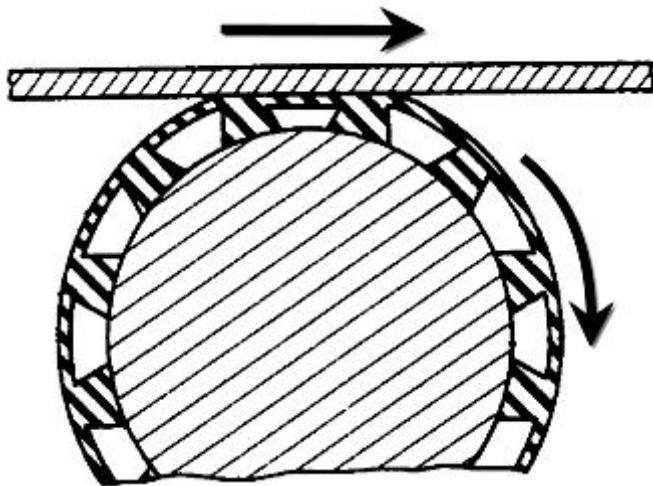
the roller sleeves being shock-absorbing, e.g. formed by helically-wound wires

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





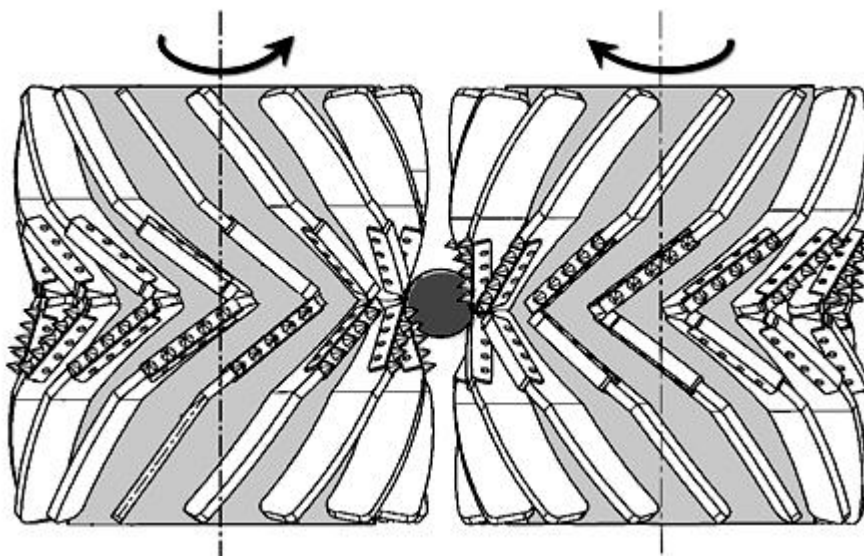
B65G 39/07

Other adaptations of sleeves

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

For cleaning belts,	B65G 39/073
For general cleaning purposes	B08B 1/32

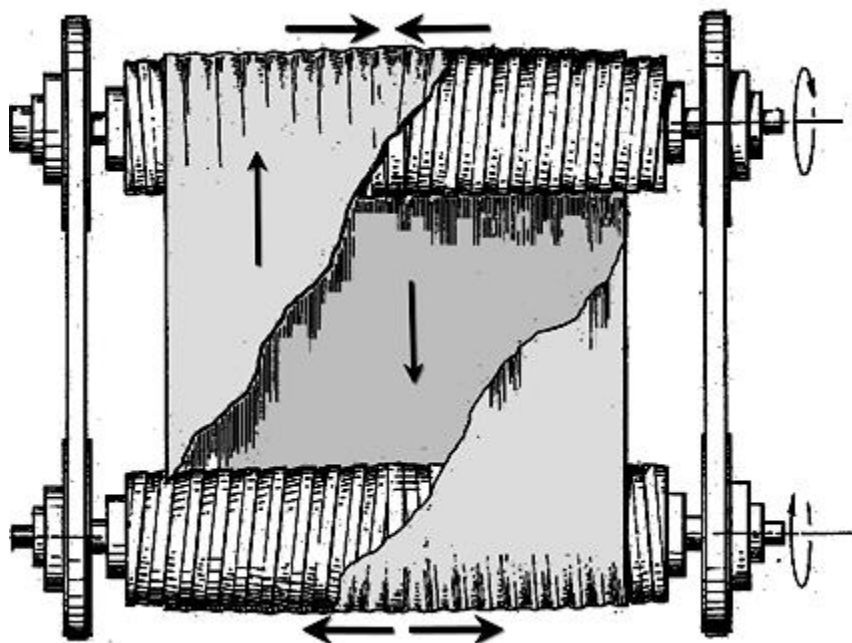
B65G 39/071

for aligning belts or sheets

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

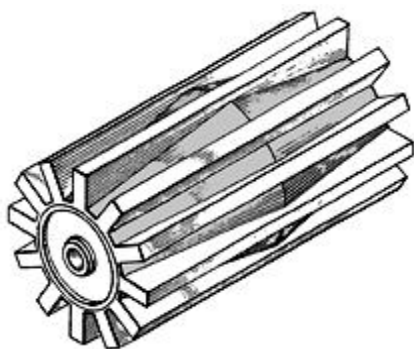
**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Roller support control for aligning the belt	B65G 39/16
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B65G 39/073**for cleaning belts****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Rotating bodies for general cleaning purposes	B08B 1/32
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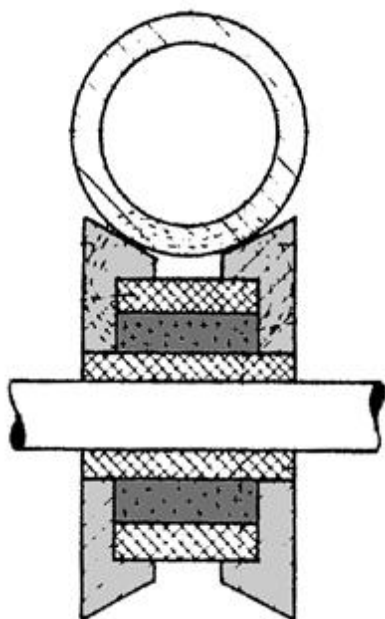
B65G 39/08

the rollers being magnetic

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Application-oriented references**

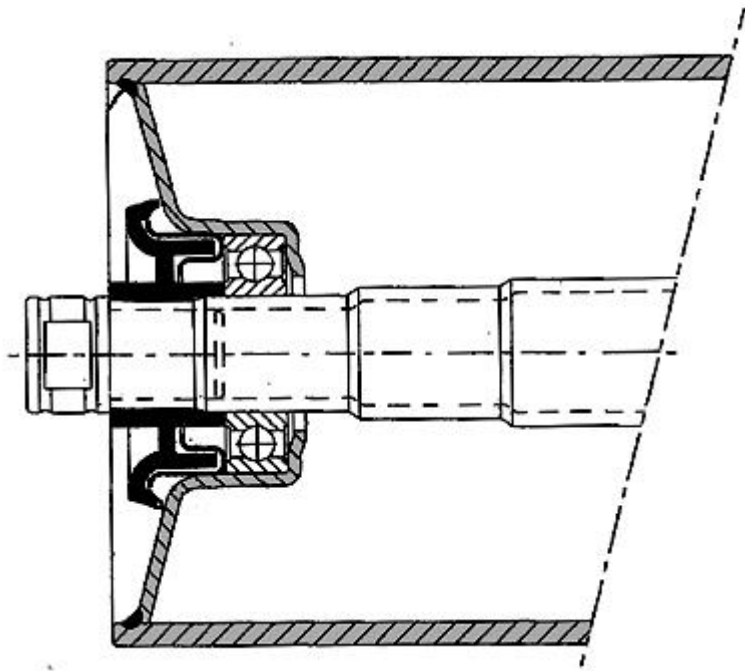
Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

In magnetic belt separators	B03C 1/00
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B65G 39/09**Arrangements of bearing or sealing means****Definition statement**

This place covers:

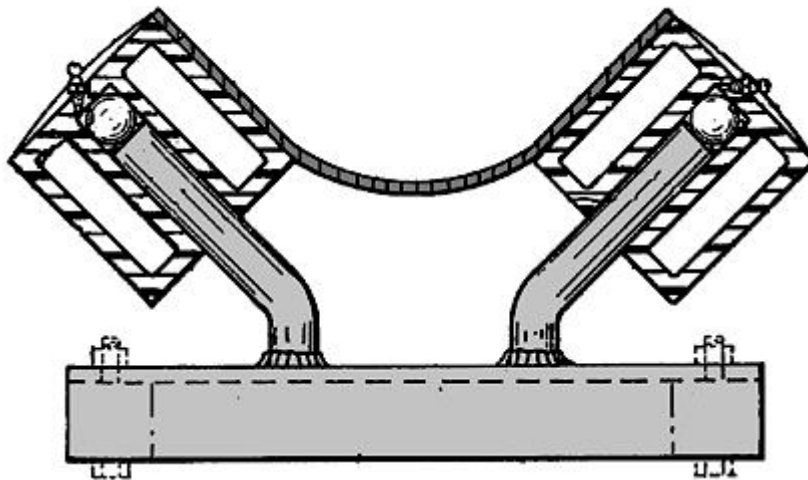
Illustrative example of subject matter classified in this group:

**B65G 39/10****Arrangements of rollers (on a single axle [B65G 39/04](#))****Definition statement**

This place covers:

Rollers fixed (not adjustable) to the frame

Illustrative example of subject matter classified in this group:



B65G 39/12

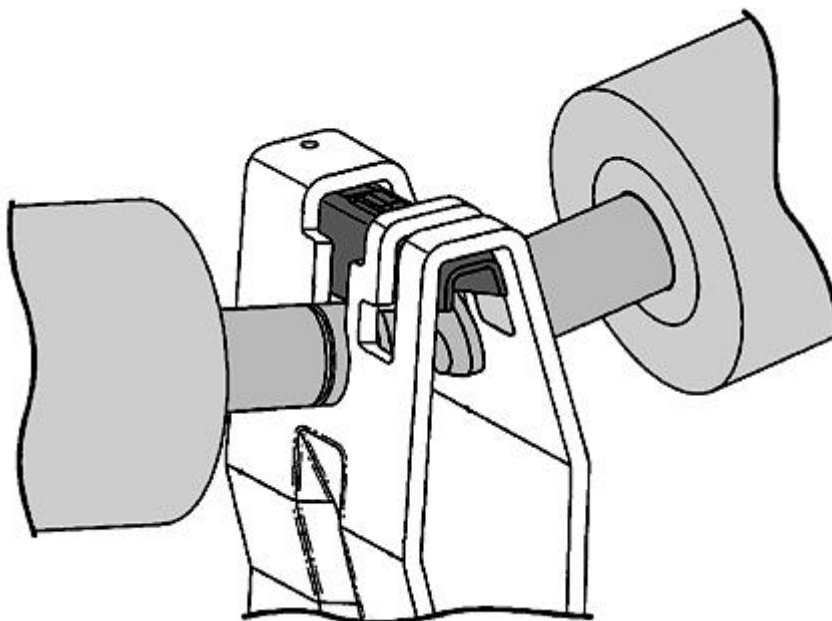
mounted on framework

Definition statement

This place covers:

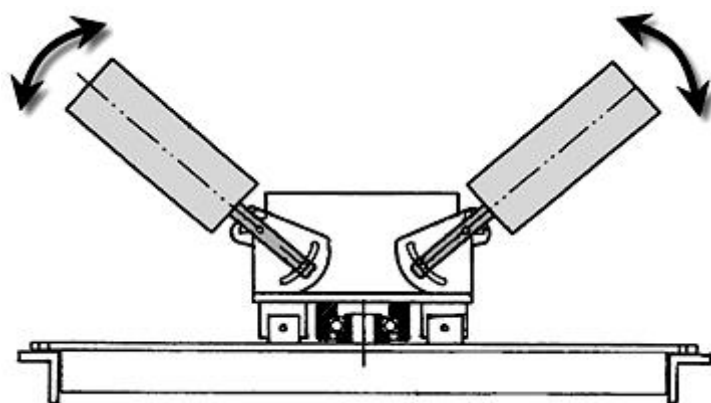
The mounting of the roller on the frame

Illustrative example of subject matter classified in this group:



B65G 39/125**{for selectively adjusting troughing of the conveying belt}****Definition statement***This place covers:*

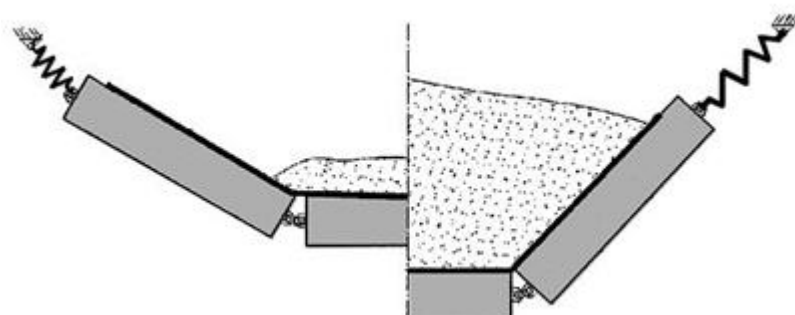
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For bulk material,	B65G 21/2081
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B65G 39/14**Spring-supported sets, e.g. permitting troughing of a load-carrying belt****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Changing a roller of a belt conveyor	B65G 15/00
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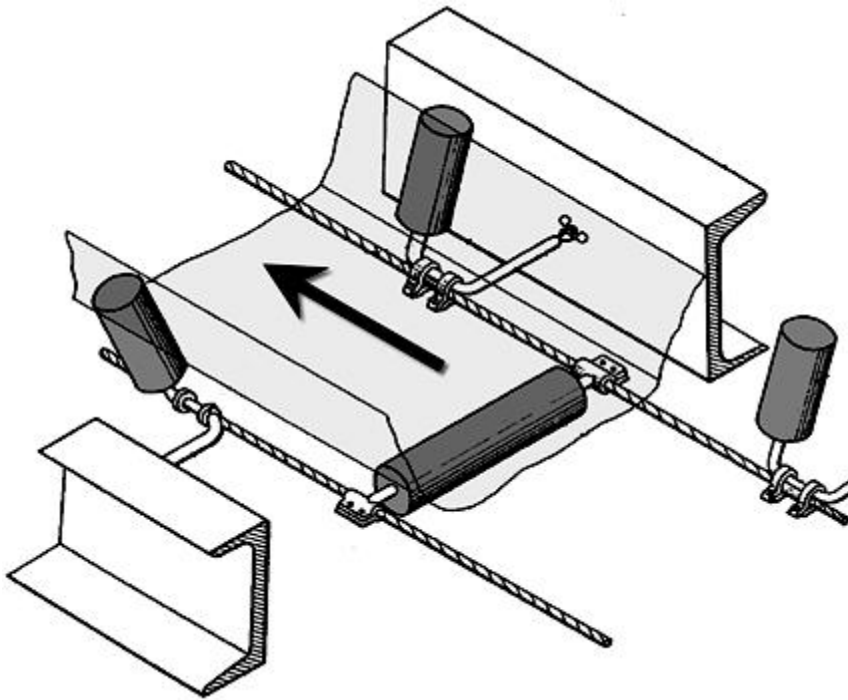
B65G 39/145

{attached to ties formed by longitudinal cables or ropes}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

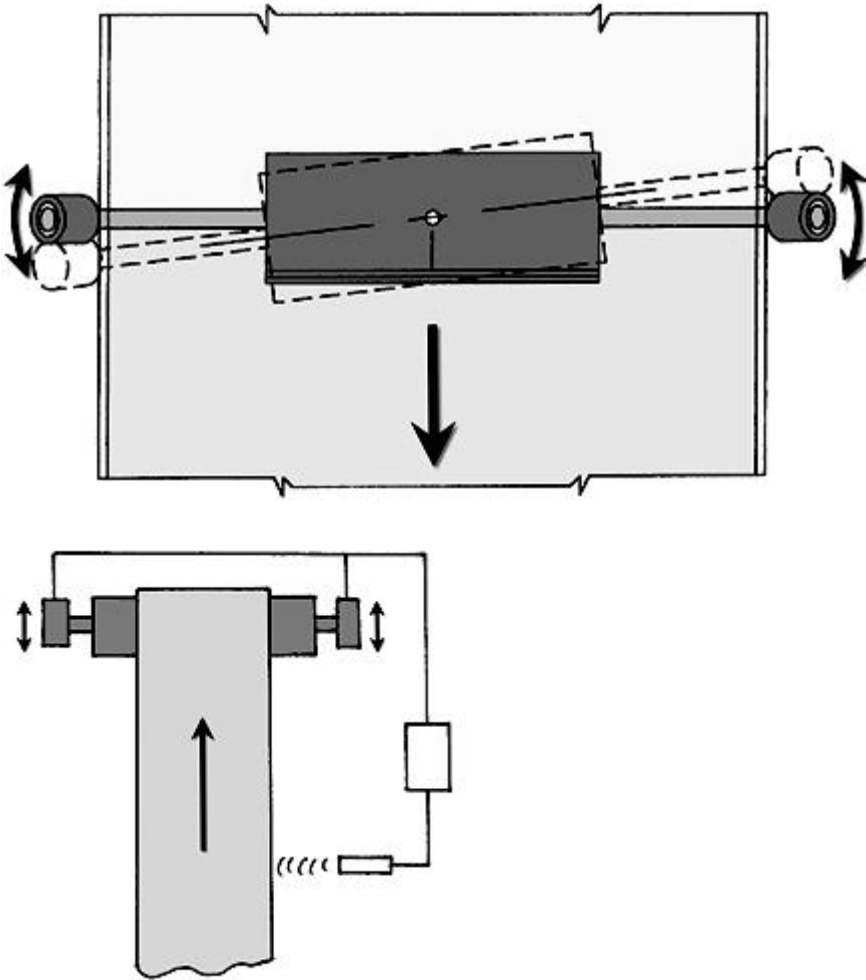
**Special rules of classification**

[B65G 39/145](#) should not be considered as a subclass of [B65G 39/14](#)

B65G 39/16
for aligning belts or chains

Definition statement

This place covers:
Illustrative example of subject matter classified in this group:



References

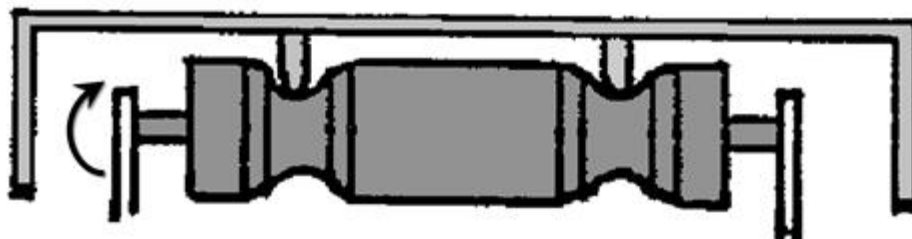
Informative references

Attention is drawn to the following places, which may be of interest for search:

Guides for sliding belts	B65G 15/62
Lateral guidance means for bulk material	B65G 21/2081
For aligning tapes or webs	B65H

B65G 39/18**for guiding loads****Definition statement***This place covers:*

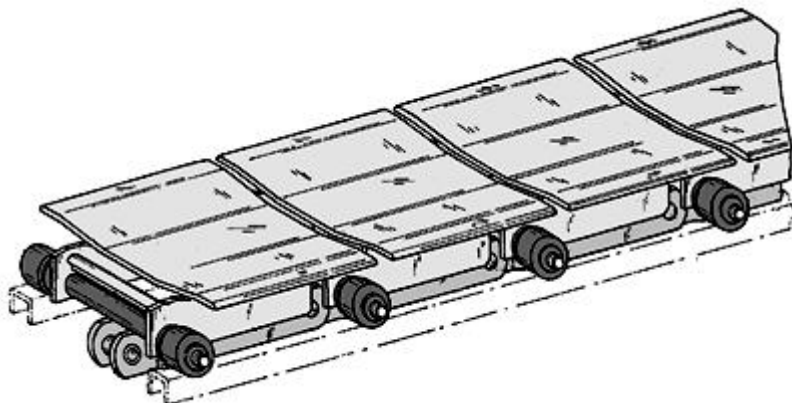
Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Comprising elements movable in the direction of load-transport	B65G 21/2054
The construction of the roller itself	B65G 39/00

B65G 39/20**attached to moving belts or chains****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Belts	B65G 15/30
Chains	B65G 17/44

B65G 41/00

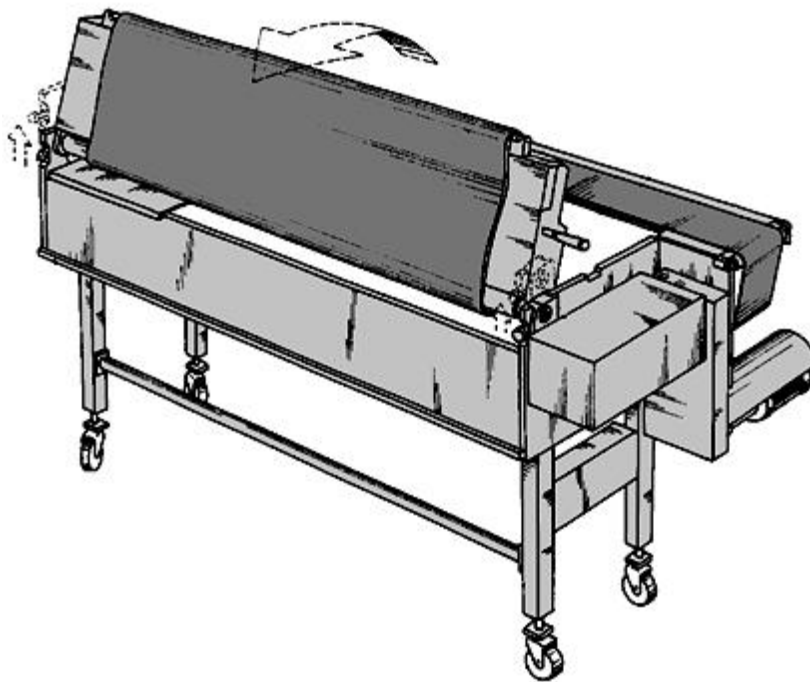
Supporting frames or bases for conveyors as a whole, e.g. transportable conveyor frames

Definition statement

This place covers:

Where in the whole conveying unit is on a base or a supporting unit

Illustrative example of subject matter classified in this group:



B65G 41/001

{with the conveyor adjustably mounted on the supporting frame or base}

References

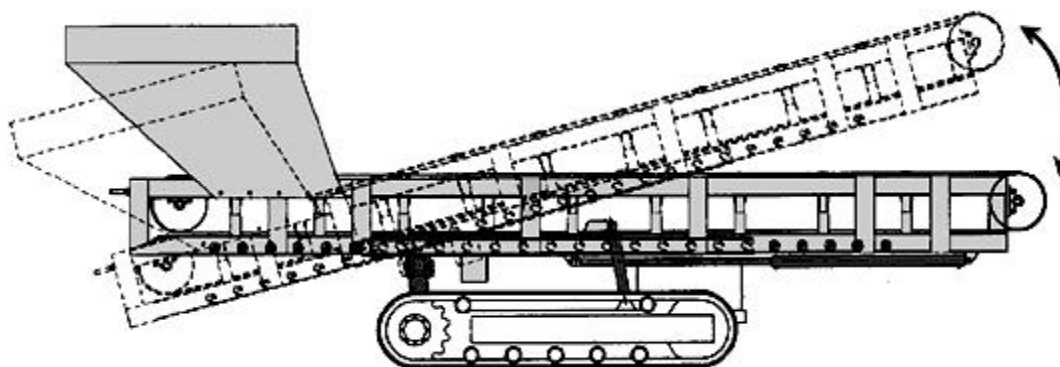
Informative references

Attention is drawn to the following places, which may be of interest for search:

Piling/unpiling bulk	B65G 65/28
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B65G 41/002**{Pivotably mounted}****Definition statement***This place covers:*

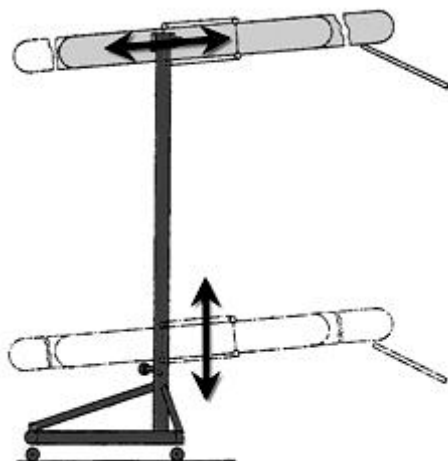
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

To adjust the position of the conveyor as a whole	B65G 21/12
---	----------------------------

B65G 41/003**{mounted for linear movement only}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

For telescopic arrangement	B65G 21/14 , B65G 13/12
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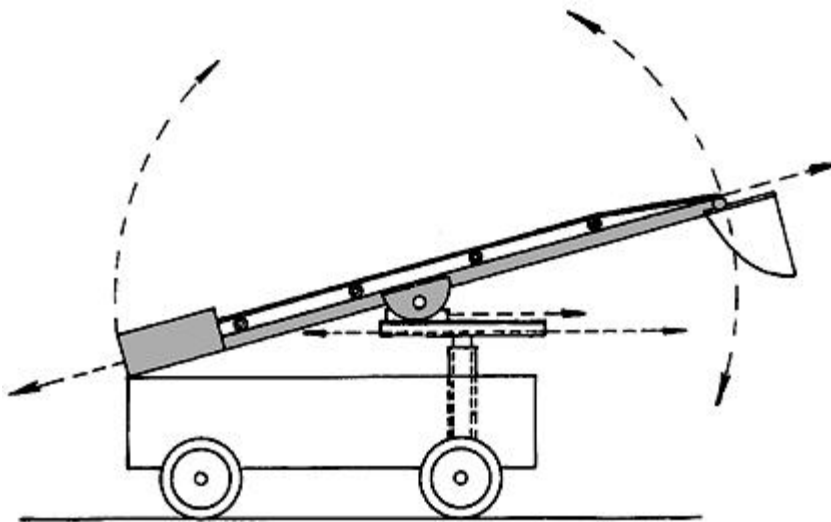
B65G 41/005

{mounted for both pivotal and linear movement}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



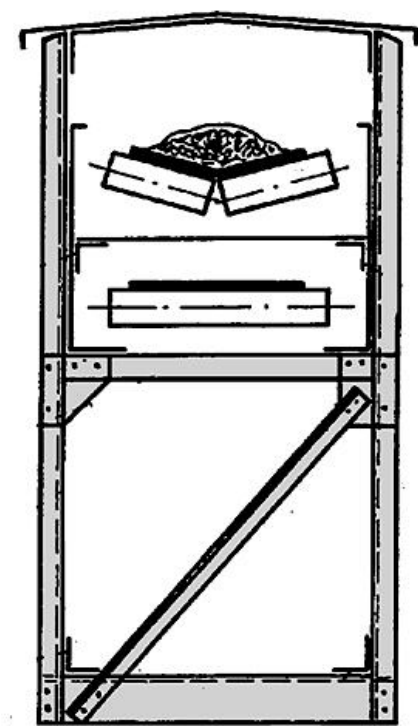
B65G 41/006

{with the conveyor not adjustably mounted on the supporting frame or base}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Supporting or protective framework consisting essentially of struts, ties, or like structural elements	B65G 21/02
Supporting or protective framework constructed to facilitate rapid assembly or dismantling	B65G 21/06

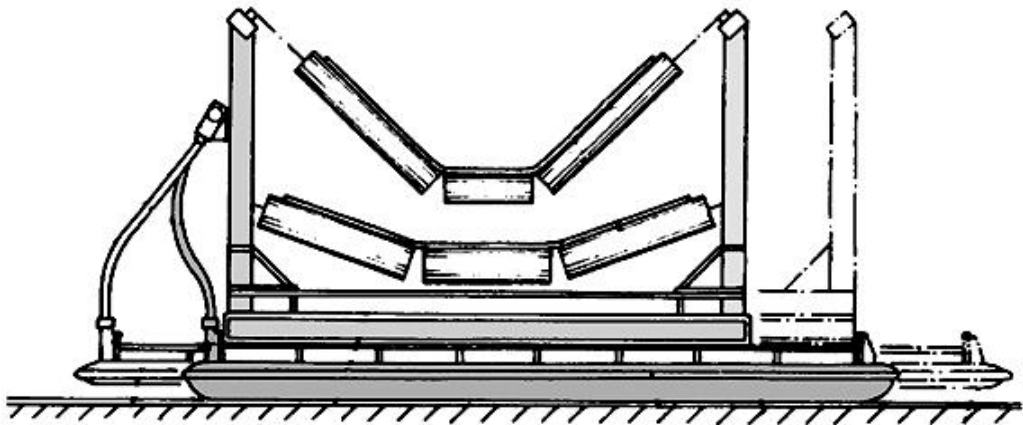
B65G 41/007

{Means for moving conveyor frames and control arrangements therefor
([B65G 41/02](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

On wheels	B65G 41/008
On wheels on rails	B65G 41/02

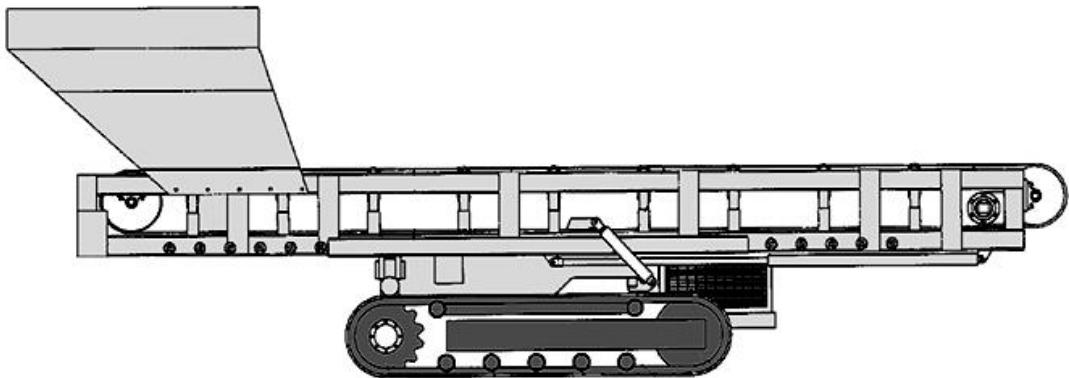
B65G 41/008

{frames mounted on wheels or caterpillar (for movement on rail tracks
[B65G 41/02](#))}

Definition statement

This place covers:

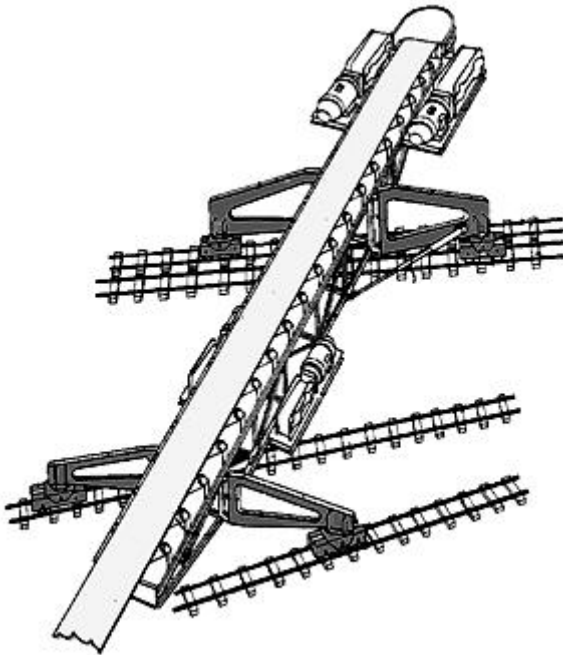
Illustrative example of subject matter classified in this group:



B65G 41/02**Frames mounted on wheels for movement on rail tracks****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Piling/unpiling bulk	B65G 65/28
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B65G 43/00**Control devices, e.g. for safety, warning or fault-correcting****References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

For elevators, escalators or moving walkways	B66B
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Inspection trolleys moving on belt or frame	B65G 15/00 , B65G 21/00
Elements attached to a frame for the safety of people	B65G 21/00

Antistatic features	B65G 2207/10
Control devices in general	F16P , G08B
Safety devices, guards	F16P 1/005
Controls in general	G05B
Devices for preventing static electricity	H05F 3/00

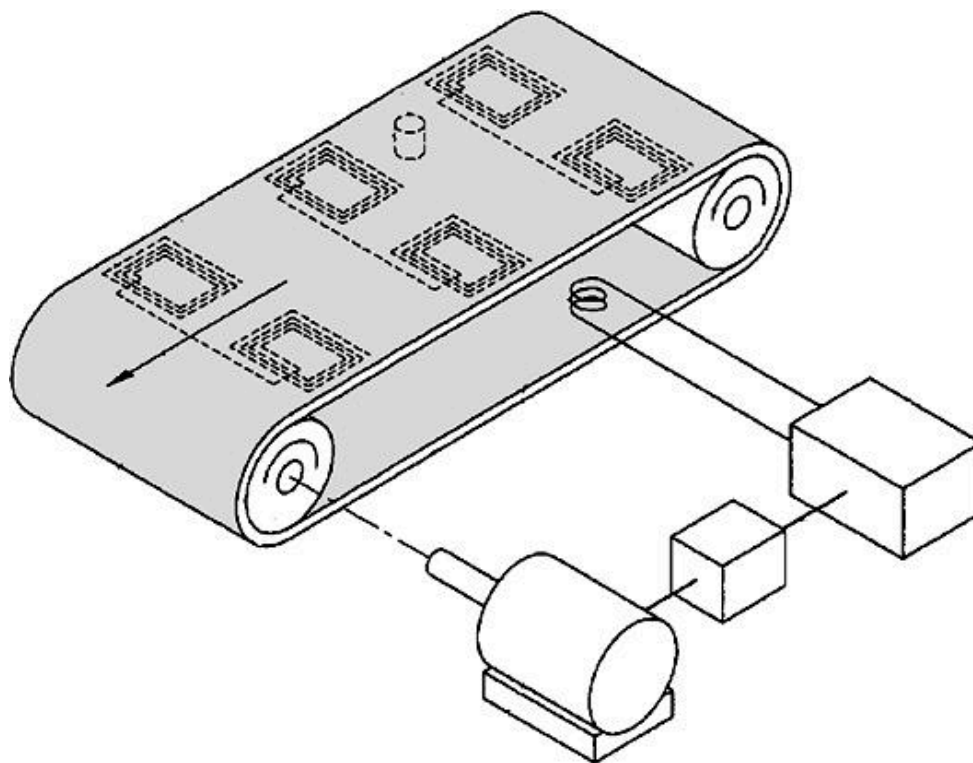
B65G 43/02

detecting dangerous physical condition of load carriers, e.g. for interrupting the drive in the event of overheating

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Testing transmission	G01M 13/02
Impuls speed control	G01P , G01D
Electrical speed control	G05B

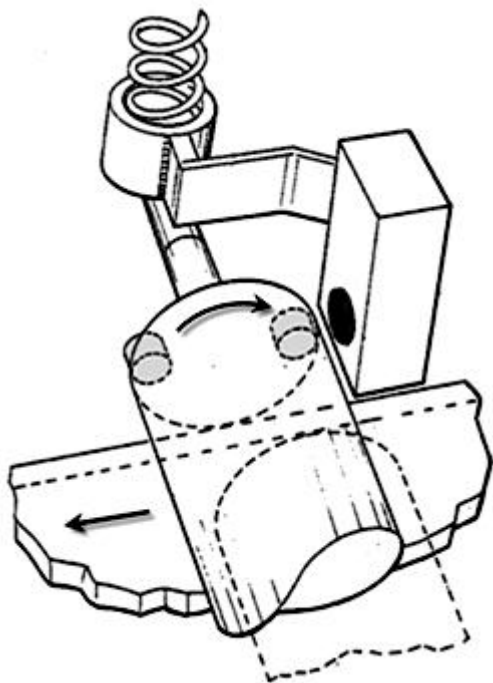
B65G 43/04

detecting slip between driving element and load-carrier, e.g. for interrupting the drive {(B65G 43/02 takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

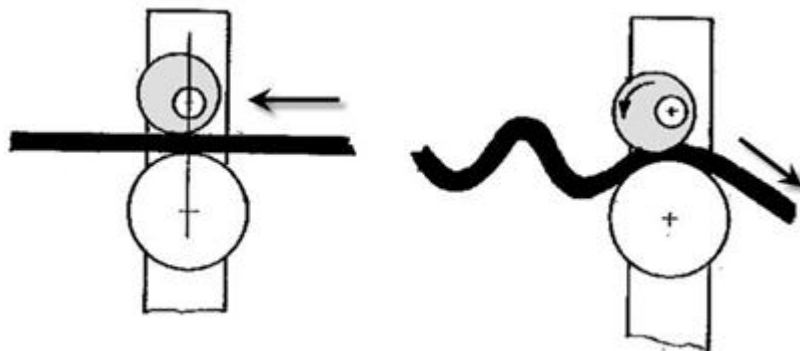
**B65G 43/06**

interrupting the drive in case of driving element breakage; Braking or stopping loose load-carriers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 43/08

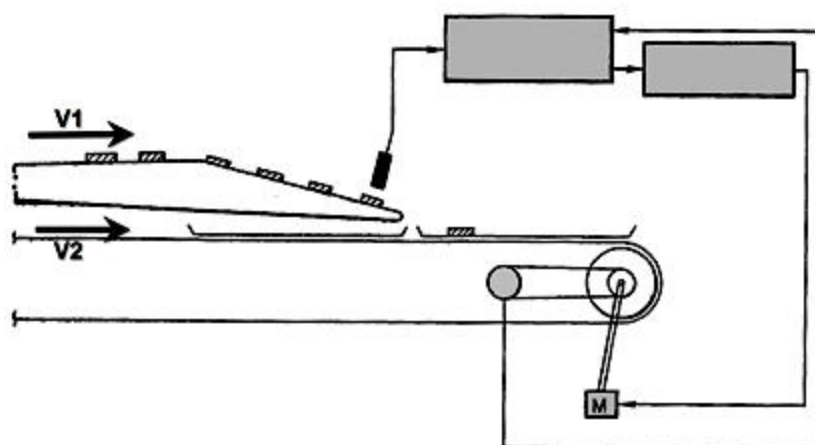
Control devices operated by article or material being fed, conveyed or discharged {(and controlling the discharging devices [B65G 47/42](#))}

Definition statement

This place covers:

Only in combination with the detection of articles or bulk

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Counting articles in a conveyor	G06M 7/04
---------------------------------	---------------------------

B65G 43/10

Sequence control of conveyors operating in combination

Definition statement

This place covers:

Also: control of conveying modules over network bus or daisy chain

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Accumulating articles	B65G 47/268
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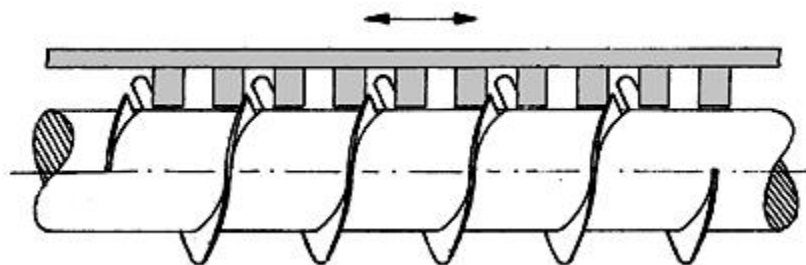
B65G 45/005

{Cleaning conveyor screws}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Presses with screws	B30B 9/122 , B30B 11/248
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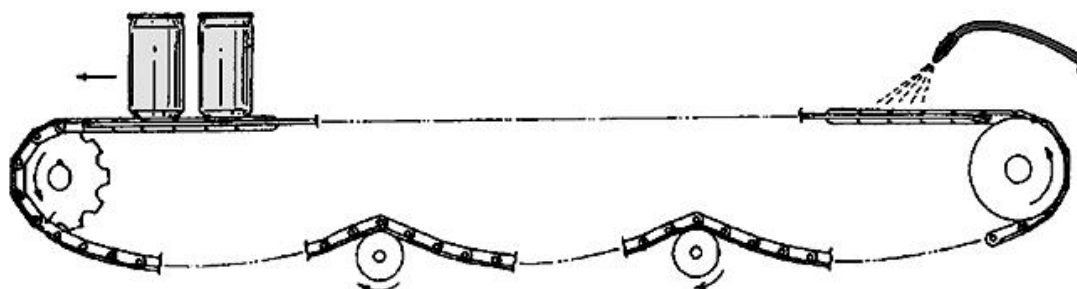
B65G 45/02

Lubricating devices

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Composition of lubricant	C10M 173/025
Lubricating in general	F16N

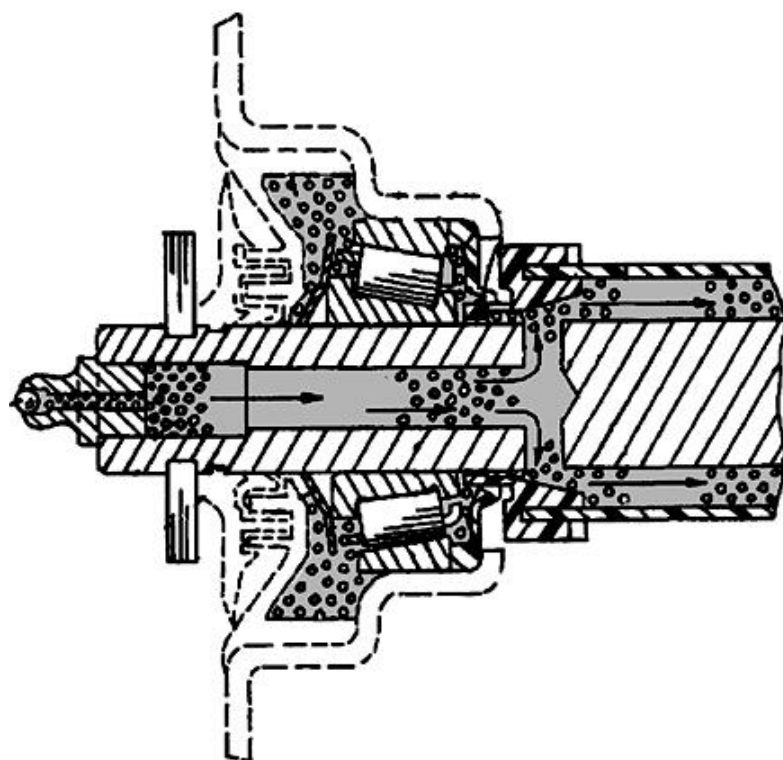
B65G 45/04

for rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



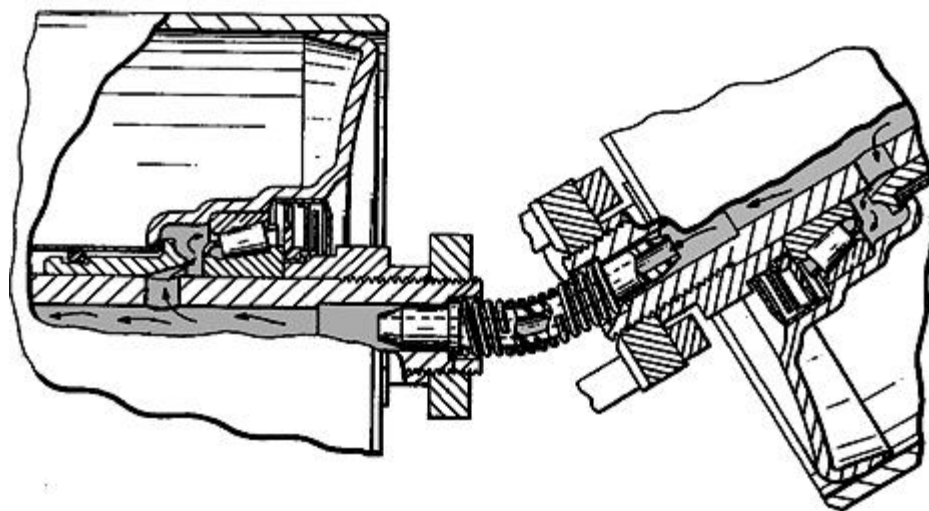
B65G 45/06

forming belt troughing structure

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 45/08**

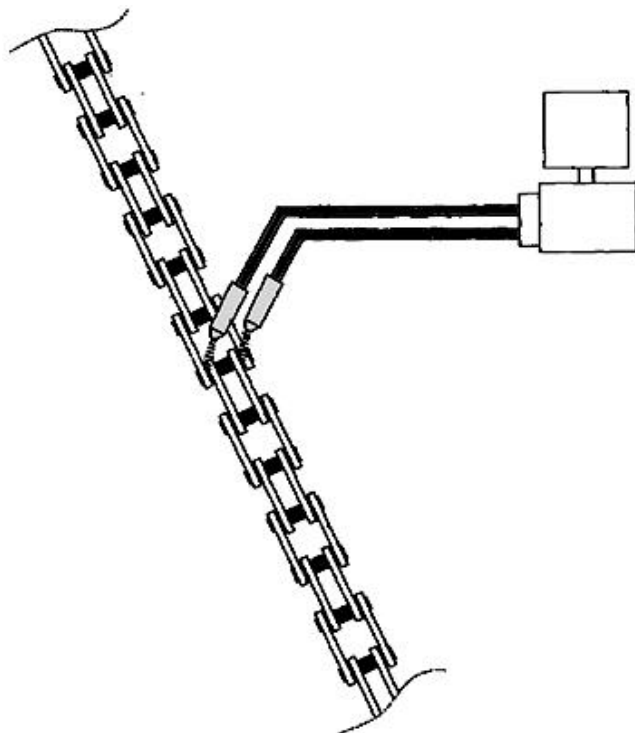
for chains

Definition statement

This place covers:

Only external means for lubricating the chain itself

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Self-lubricating chains	B65G 17/38
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B65G 45/10

Cleaning devices (adaptations of roller sleeves for cleaning belts [B65G 39/073](#))

References

Limiting references

This place does not cover:

Comprising brushes	B65G 45/18
Comprising fluid applying means	B65G 45/22

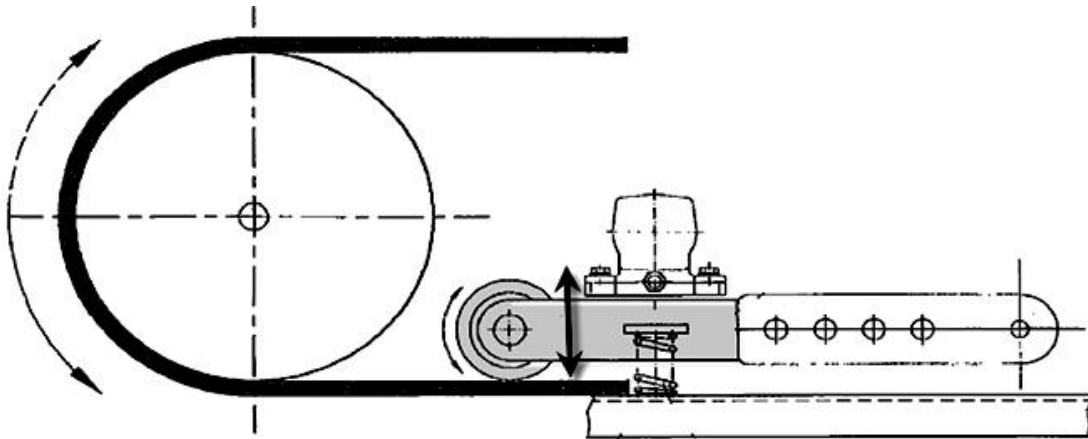
Informative references

Attention is drawn to the following places, which may be of interest for search:

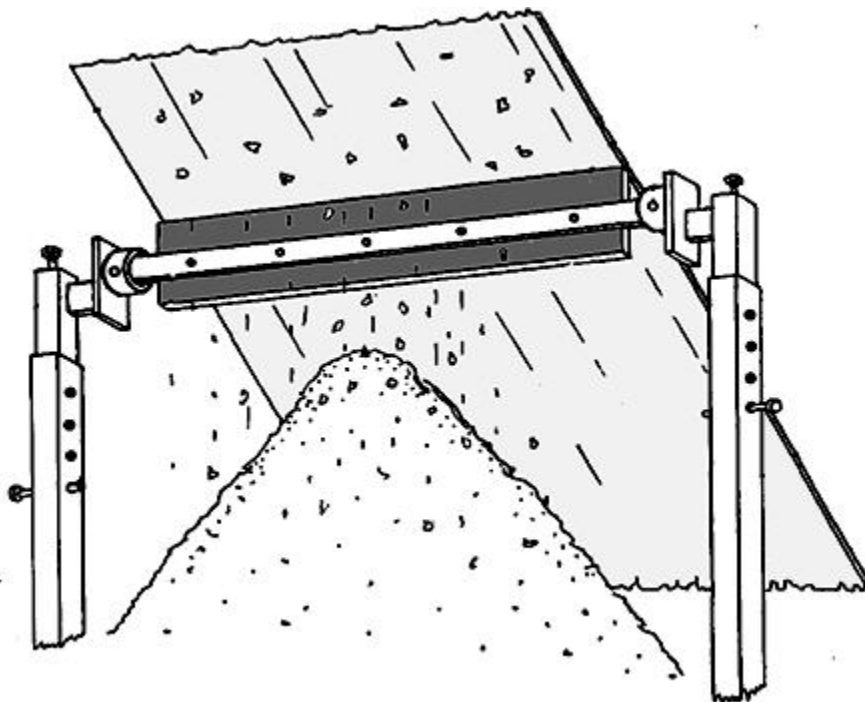
Cleaning escalators	B66B 31/00
---------------------	----------------------------

B65G 45/105**{comprising vibrating means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 45/12****comprising scrapers****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising plural diverse cleaning devices	B65G 45/24
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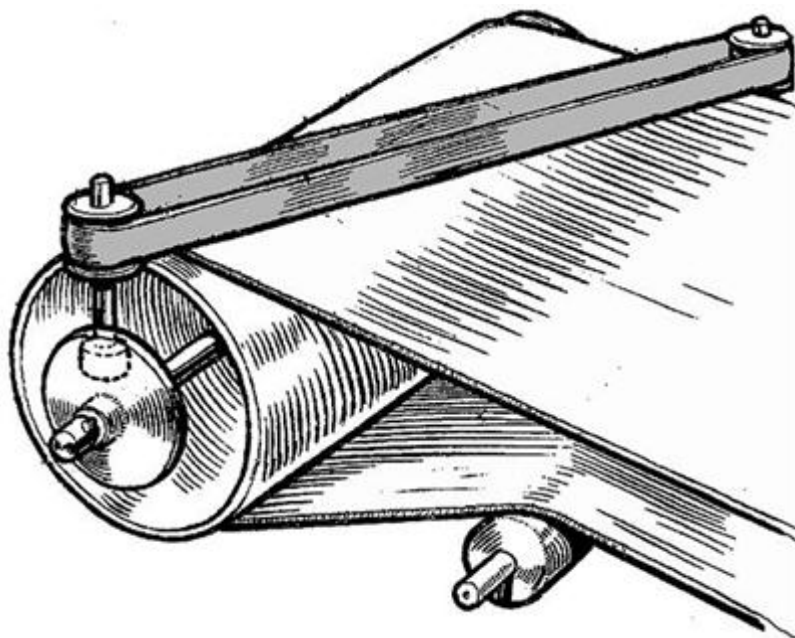
B65G 45/14

Moving scrapers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Brushes	B65G 45/18
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B65G 45/16

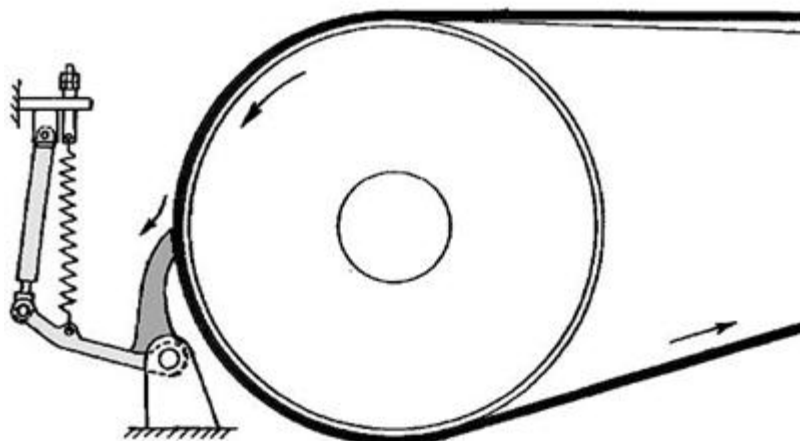
with scraper biasing means

Definition statement

This place covers:

Only with details of the scraper biasing means

Illustrative example of subject matter classified in this group:



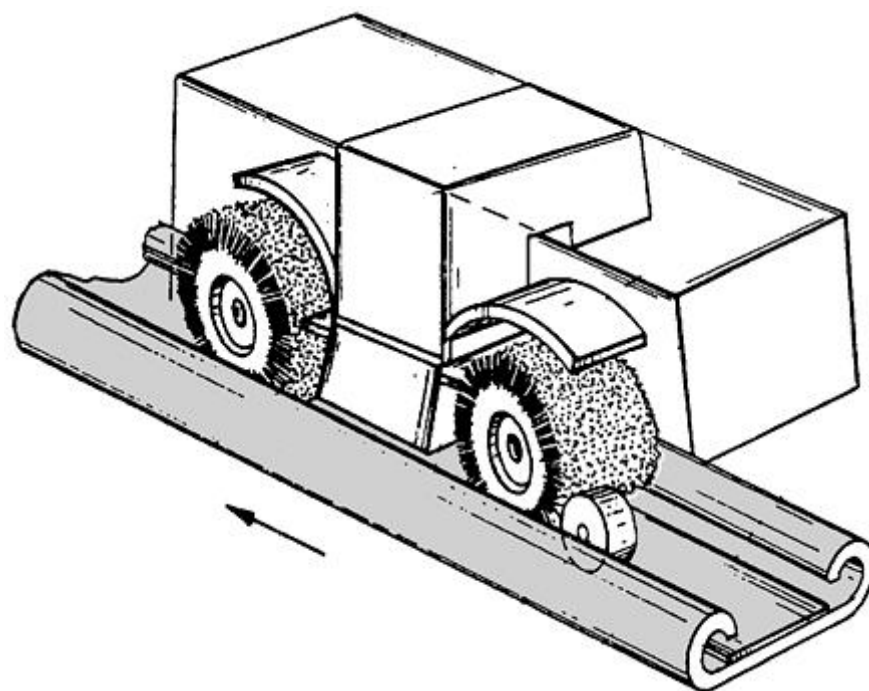
B65G 45/18

comprising brushes

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

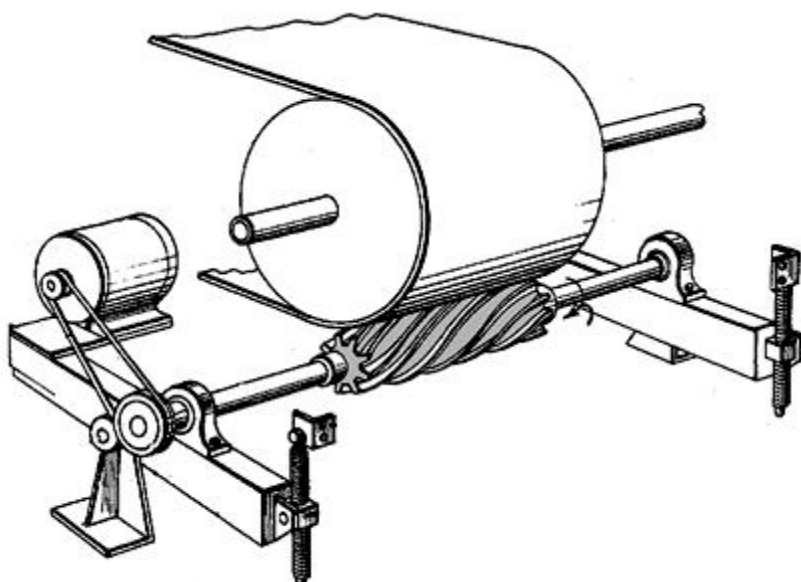
Informative references

Attention is drawn to the following places, which may be of interest for search:

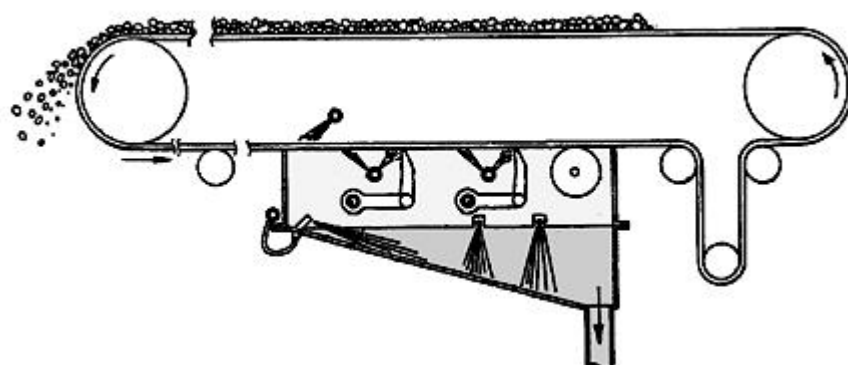
Comprising plural diverse cleaning device	B65G 45/24
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B65G 45/20**comprising screws****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 45/22****comprising fluid applying means****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Lubricating means	B65G 45/02
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising plural diverse cleaning device	B65G 45/24
---	----------------------------

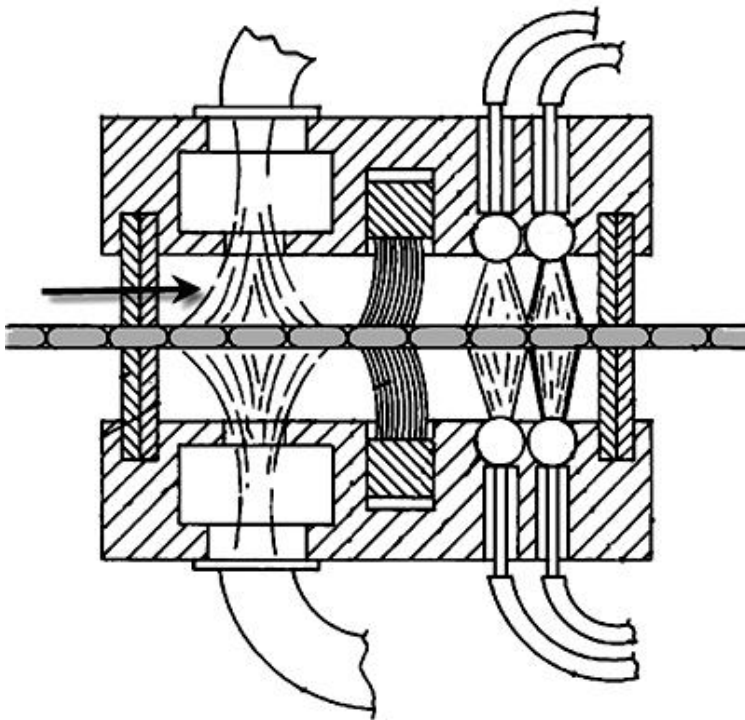
B65G 45/24

comprising plural diverse cleaning devices

Definition statement

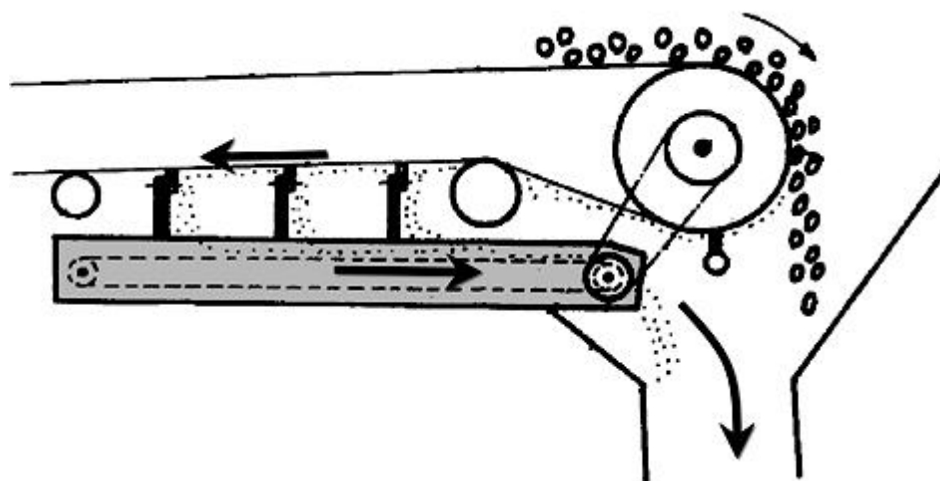
This place covers:

Illustrative example of subject matter classified in this group:



B65G 45/26**for gathering residue after cleaning****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Collecting the cleaning fluid	B65G 45/22
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

When the moving belt is cleaning the conveyor	B65G 45/14
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B65G 47/00**Article or material-handling devices associated with conveyors; Methods employing such devices****References****Application-oriented references***Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

For sorting, e.g. postal	B07C
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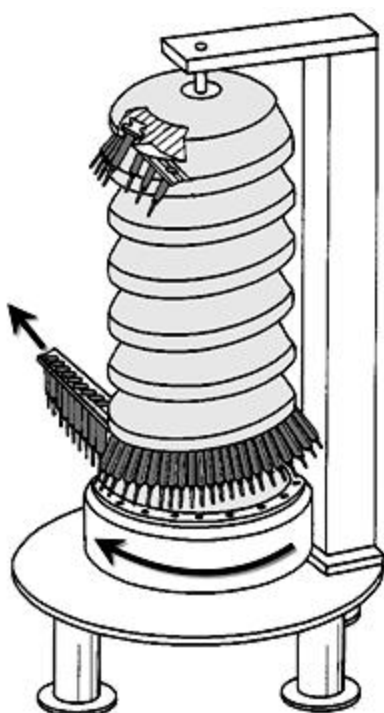
B65G 47/04**for feeding articles****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For feeding drugs to packaging devices	B65B
--	----------------------

B65G 47/06**from a single group of articles arranged in orderly pattern, e.g. workpieces in magazines (de-stacking devices [B65G 59/00](#))****Definition statement***This place covers:*

Magazine in combination with feeding device

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

De-stacking devices	B65G 59/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

For feeding screws or nails to assembling machines	B65G 47/5104 , B23P
Picking-up flat workpieces	B65H

Special rules of classification

Only magazine in combination with feeding devices

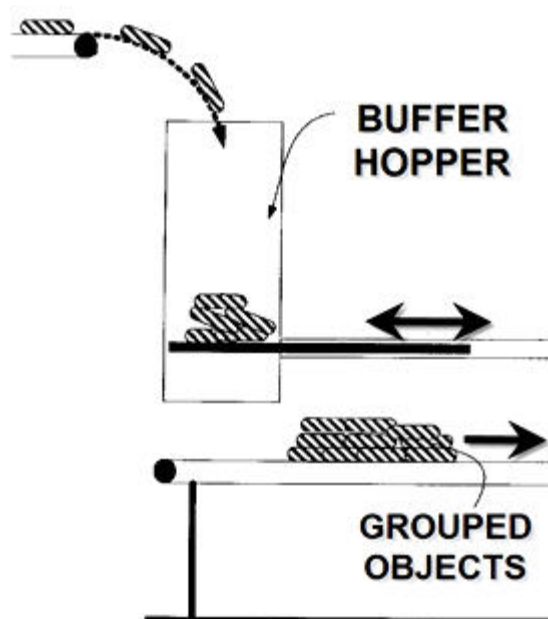
B65G 47/08

spacing or grouping the articles during feeding (during transit by conveyor [B65G 47/28](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

During transit by conveyor	B65G 47/28
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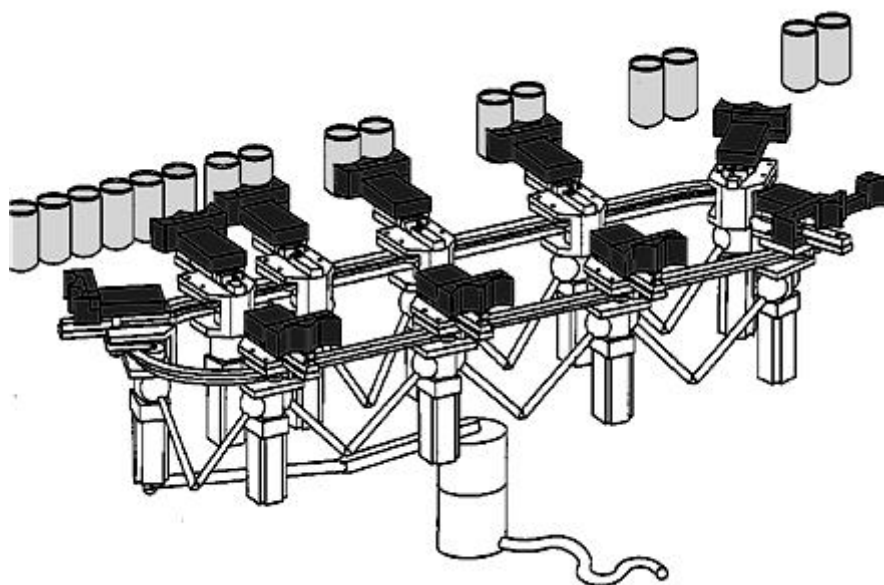
Informative references

Attention is drawn to the following places, which may be of interest for search:

Accumulating articles	B65G 47/261
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B65G 47/082**{grouping articles in rows}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

By varying the relative speeds of the conveyors forming the series	B65G 47/31
By relative displacement between conveyor and conveyor in- or output means	B65G 47/5127
Arranging, assembling, feeding, or orientating the bottles prior to introduction into, or after removal from, containers	B65B 21/04
Forming groups of bottles	B65B 21/06

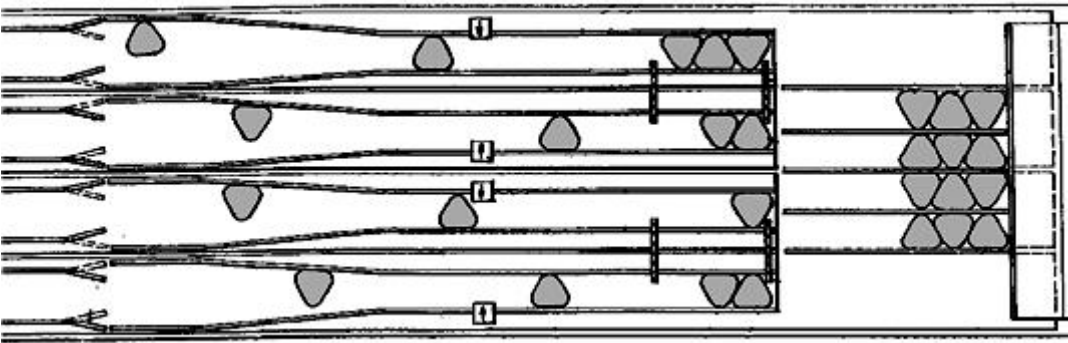
B65G 47/084

{grouping articles in a predetermined 2-dimensional pattern}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising individual load carriers which are movably mounted	B65G 17/005
By varying the speeds	B65G 47/31
Devices having endless travelling belts or chains equipped with article-engaging elements	B65G 47/841
The layers being transferred as a whole	B65G 57/24

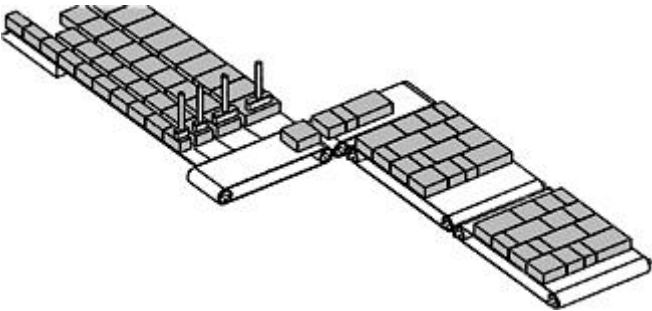
B65G 47/086

{cubiform articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising individual load carriers which are movably mounted	B65G 17/005
By varying the speeds	B65G 47/31
Devices having endless travelling belts or chains equipped with article-engaging elements	B65G 47/841
The layers being transferred as a whole	B65G 57/24

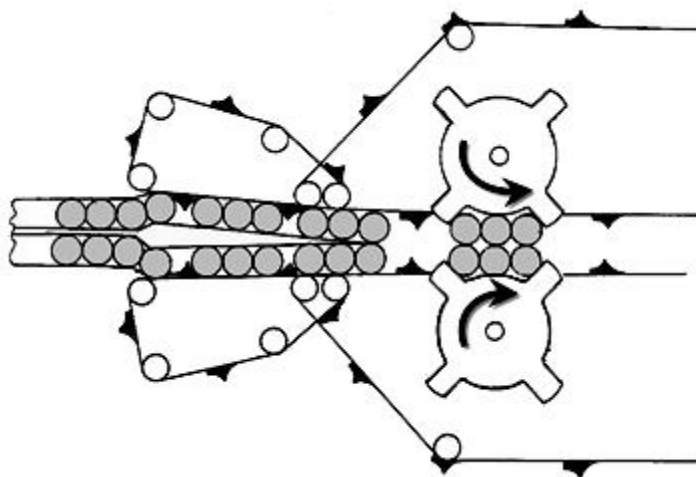
B65G 47/088

{cylindrical articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising individual load carriers which are movably mounted	B65G 17/005
By varying the speeds	B65G 47/31
Devices having endless travelling belts or chains equipped with article-engaging elements	B65G 47/841
The layers being transferred as a whole	B65G 57/24

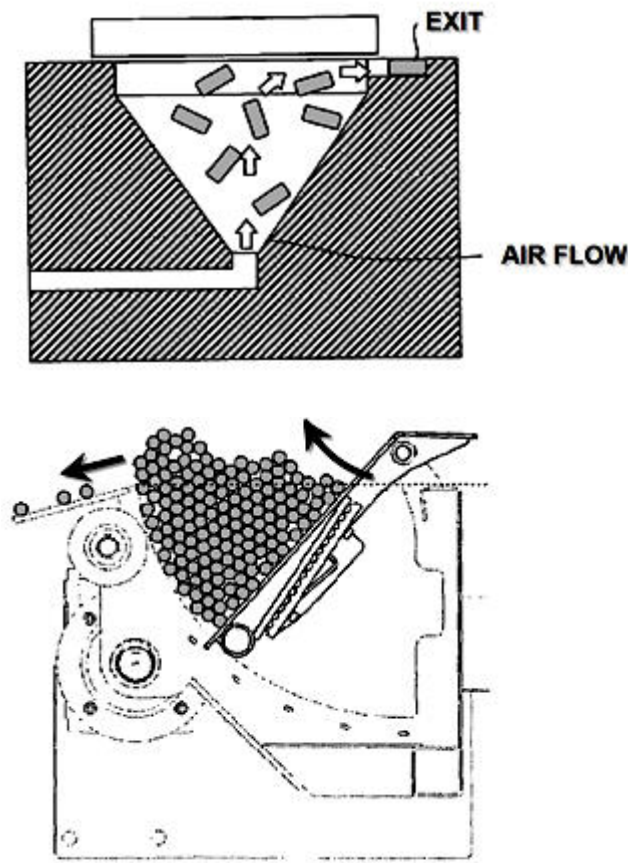
B65G 47/1407

{the articles being fed from a container, e.g. a bowl}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

For bars or long objects	B21B 39/002
Feeding articles, e.g. screws, springs, from a container to machines	B23P 19/001
The walls being deformable	B65D 88/62

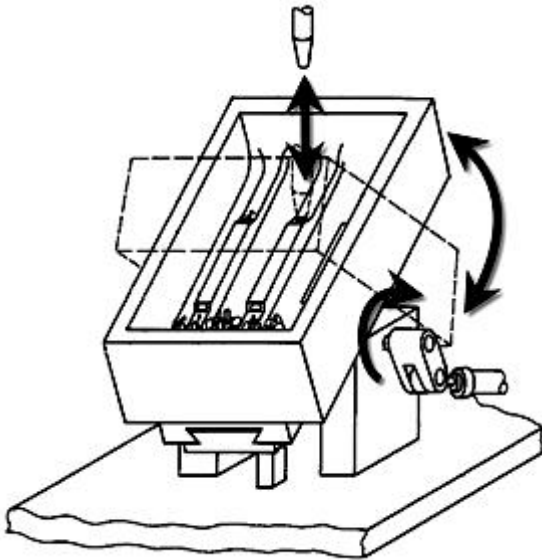
B65G 47/1414

{by means of movement of at least the whole wall of the container}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

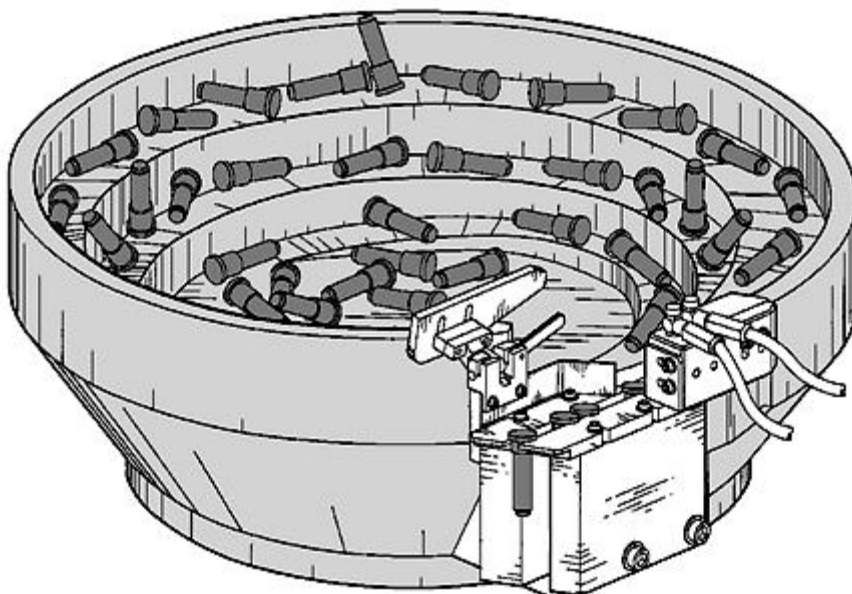
**B65G 47/1421**

{Vibratory movement}

Definition statement

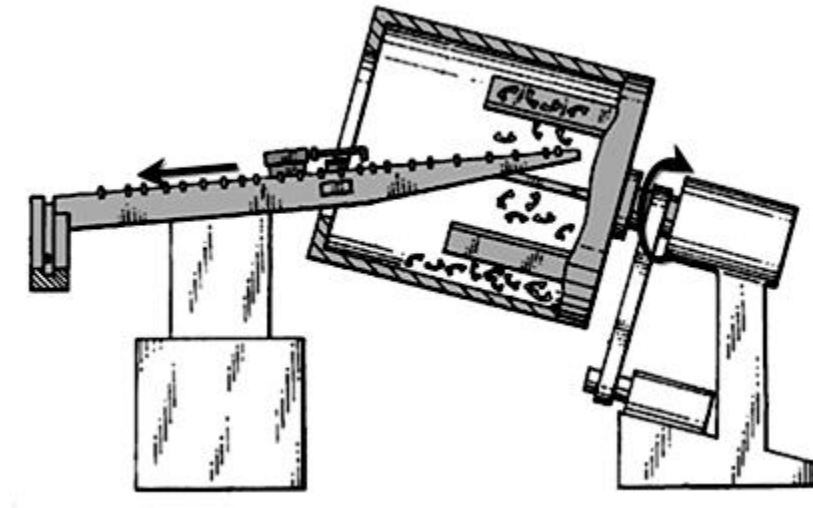
This place covers:

Illustrative example of subject matter classified in this group:

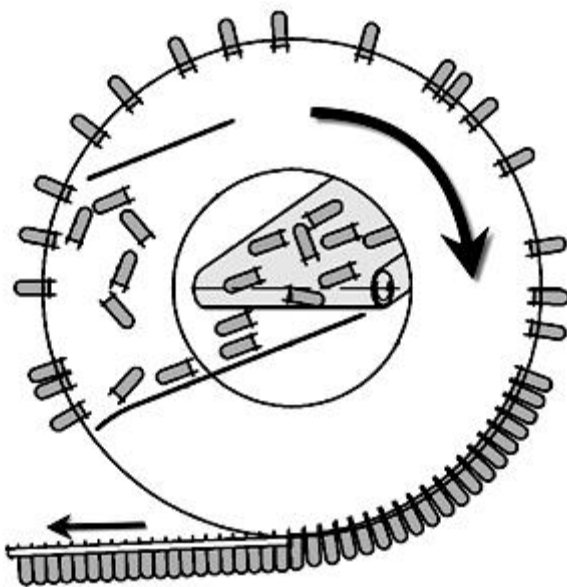


B65G 47/1428**{rotating movement}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

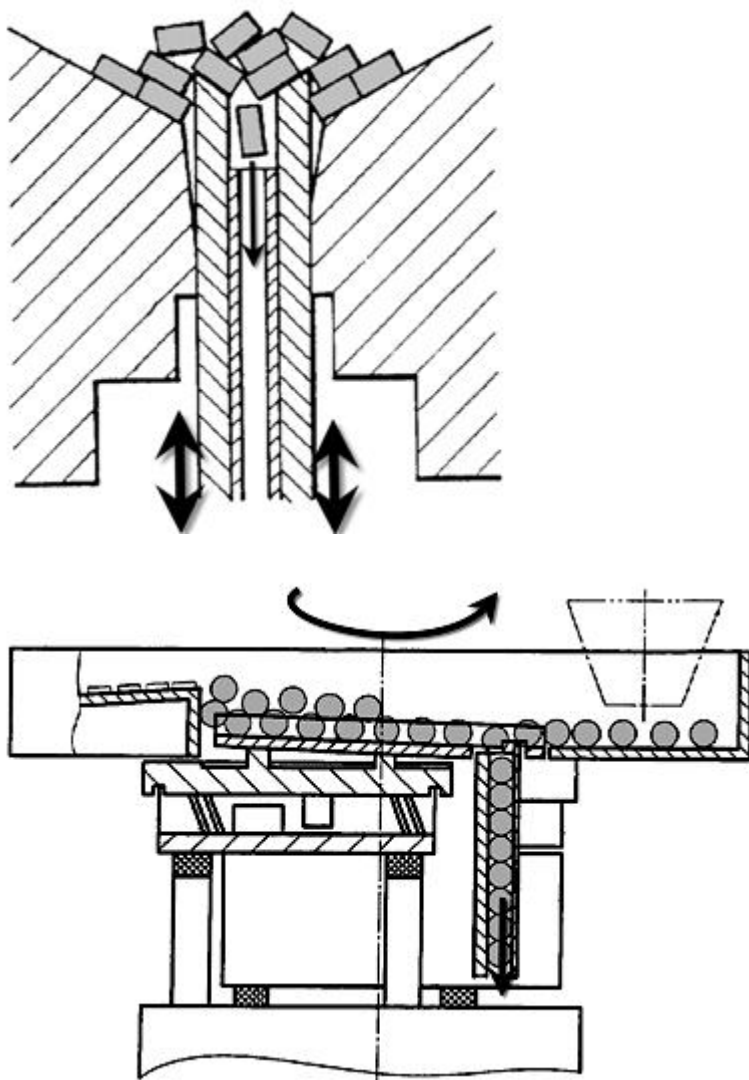
**B65G 47/1435****{using the centrifugal effect to arrange or orientate the articles}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



B65G 47/145**{Jigging or reciprocating movement}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



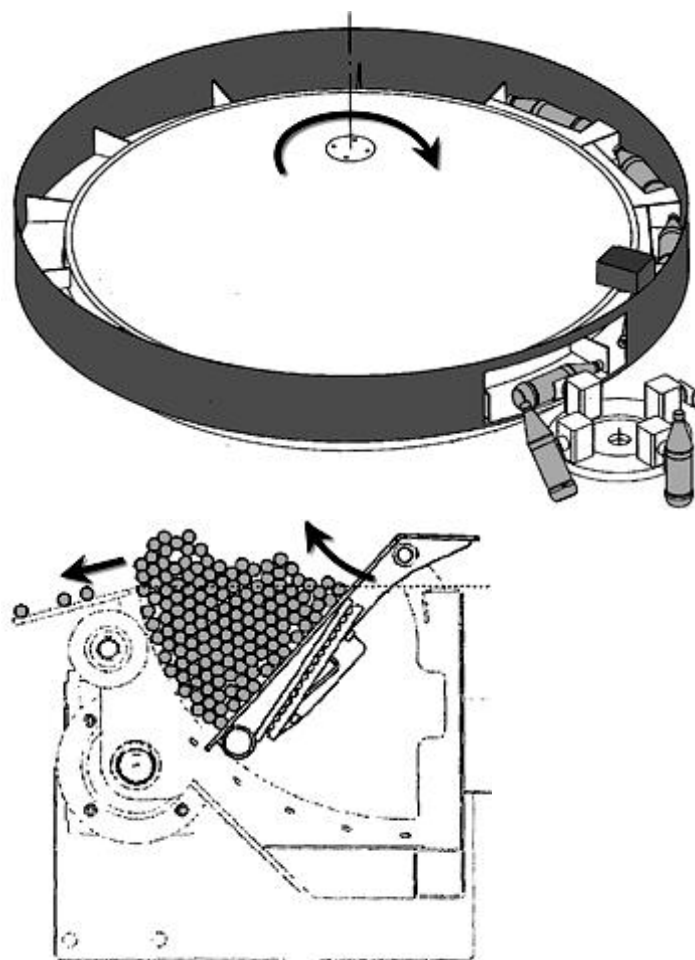
B65G 47/1457

{Rotating movement in the plane of the rotating part}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



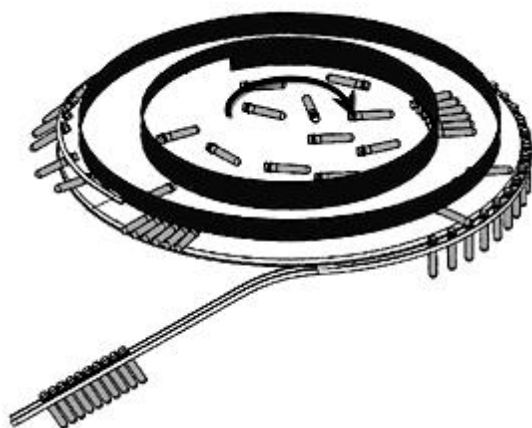
B65G 47/1464

{using the centrifugal effect to arrange or orientate the articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 47/1471**

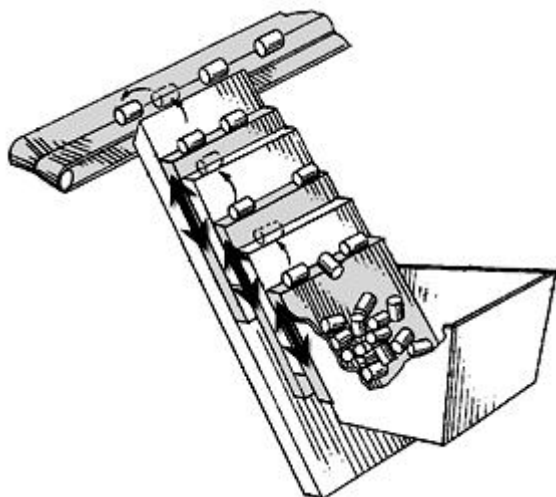
{Movement in one direction, substantially outwards}

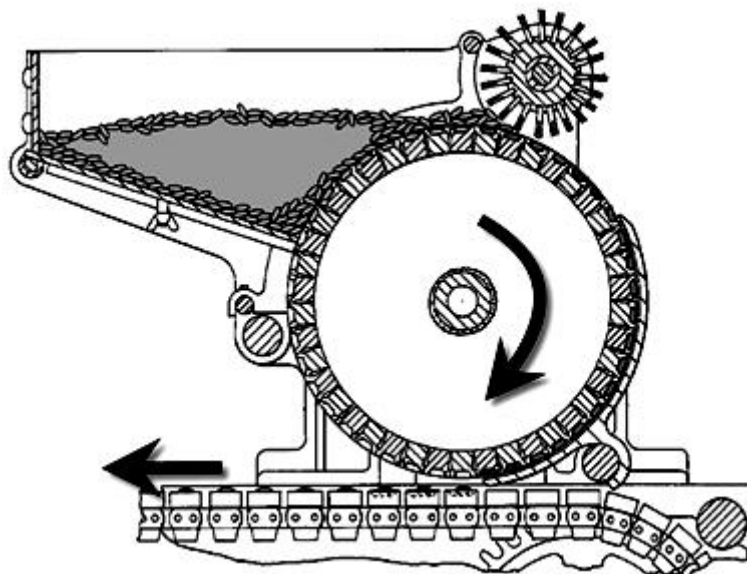
Definition statement

This place covers:

Only a plurality of articles moving out simultaneously

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

By means of pick-up devices, the container remaining immobile	B65G 47/1478
Only a single article picked up at once	B65G 47/1478
Using suction or magnetic forces	B65G 47/1485

Informative references

Attention is drawn to the following places, which may be of interest for search:

Having impellers	B65G 25/08
Using pocketed conveyors	B65B 35/08
Caps	B67B 3/06

B65G 47/1478

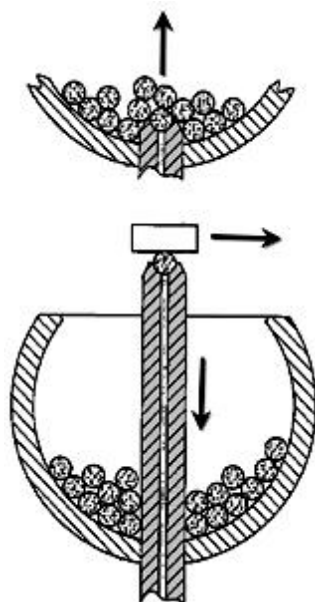
{by means of pick-up devices, the container remaining immobile}

Definition statement

This place covers:

Only a single article picked up at once

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Movement in one direction, substantially downwards	B65G 47/1471
Only a plurality of articles moving out simultaneously	B65G 47/1471

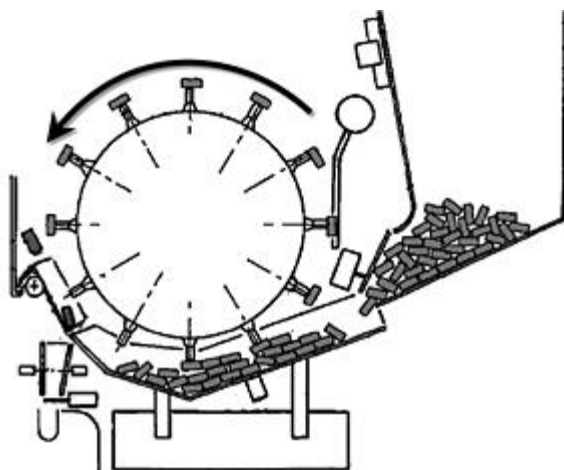
B65G 47/1485

{using suction or magnetic forces}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



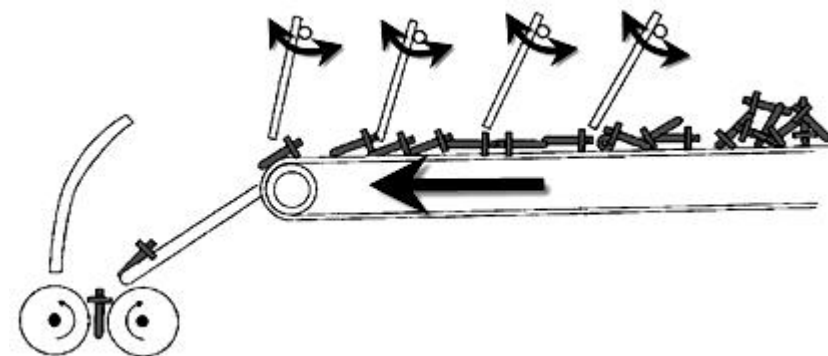
B65G 47/1492

{the articles being fed from a feeding conveyor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

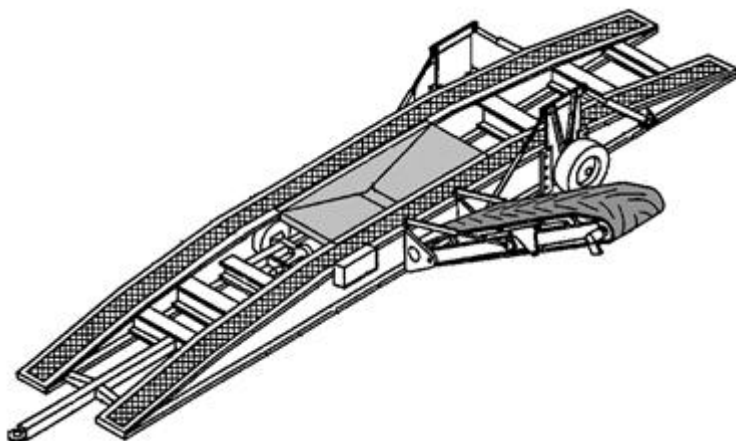
**B65G 47/18**

Arrangements or applications of hoppers or chutes

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



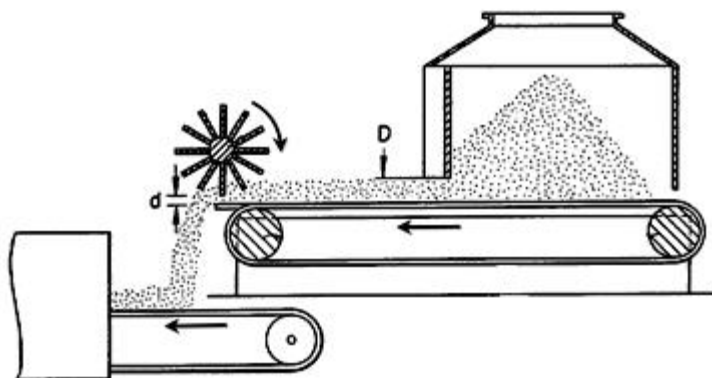
B65G 47/19

having means for controlling material flow, e.g. to prevent overloading

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Emptying using belt or chain conveyors	B65G 65/42
Controlling feed or discharge by weighing a continuous stream of material	G01G 11/08

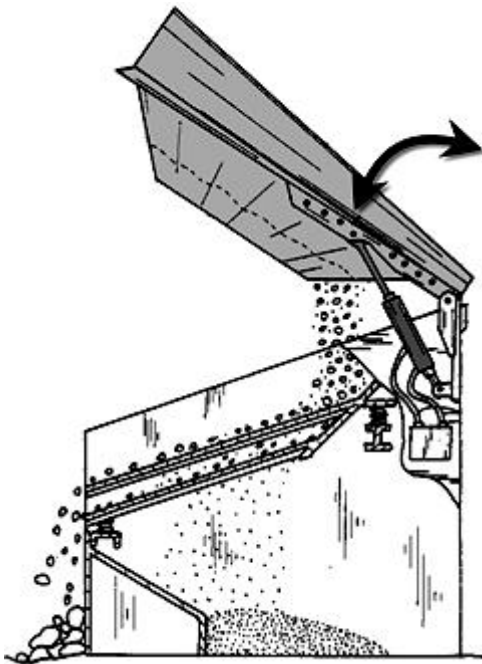
B65G 47/20

the hoppers or chutes being movable

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 47/22**

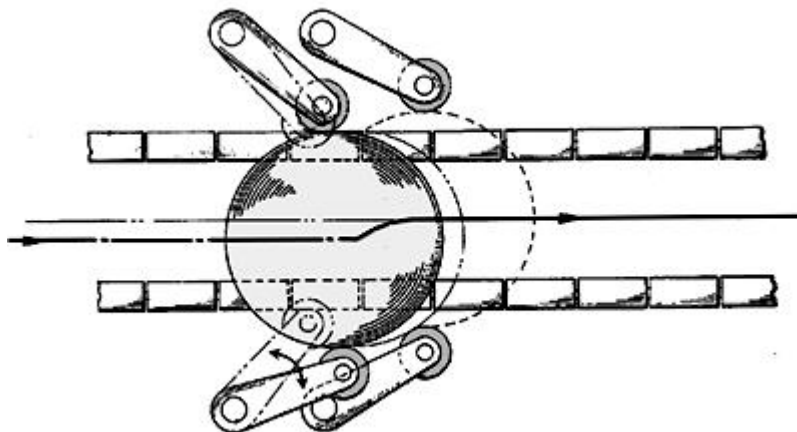
Devices influencing the relative position or the attitude of articles during transit by conveyors (during feeding [B65G 47/14](#))

Definition statement

This place covers:

Only for arranging (NOT orientating), e.g. aligning "disordered" articles on the conveyor

Illustrative example of subject matter classified in this group:



References

Informative references

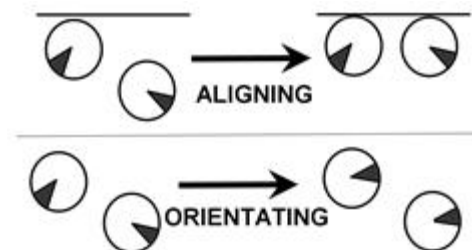
Attention is drawn to the following places, which may be of interest for search:

For changing the relative position of the articles
--

B65G 47/26 - B65G 47/31

Special rules of classification

Difference between aligning and orientating:



B65G 47/24

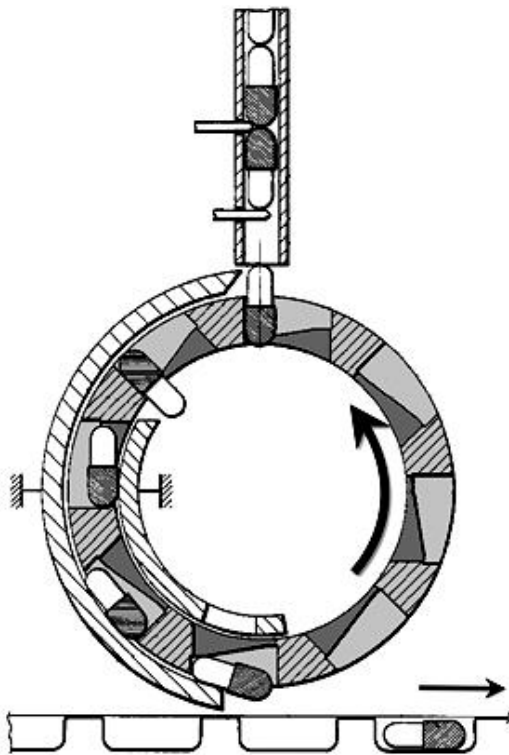
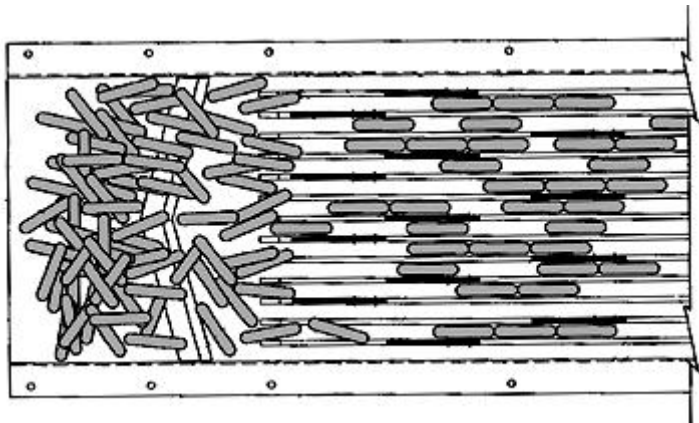
orientating the articles

Definition statement

This place covers:

The articles have various orientations before the orientating process

Illustrative example of subject matter classified in this group:



B65G 47/244

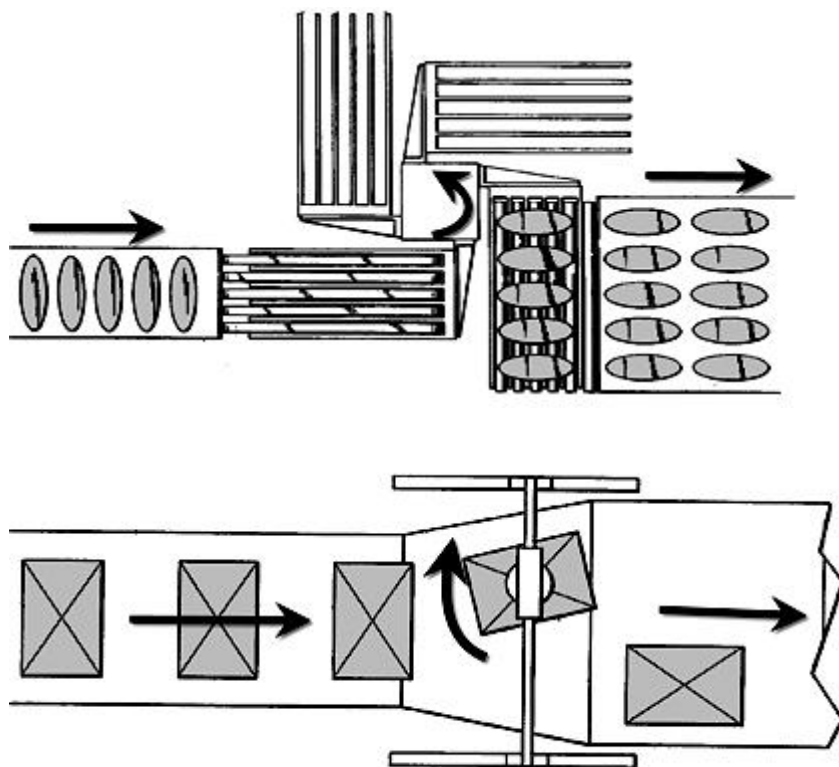
by turning them about an axis substantially perpendicular to the conveying plane

Definition statement

This place covers:

The articles have the same orientation before the orientating process

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cubiform articles	B65G 47/086
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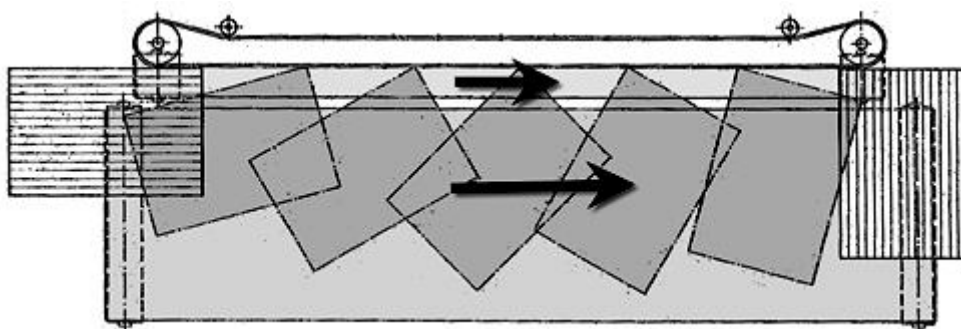
B65G 47/2445

{by means of at least two co-operating endless conveying elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

The load being conveyed between the belts	B65G 15/14
---	----------------------------

B65G 47/248

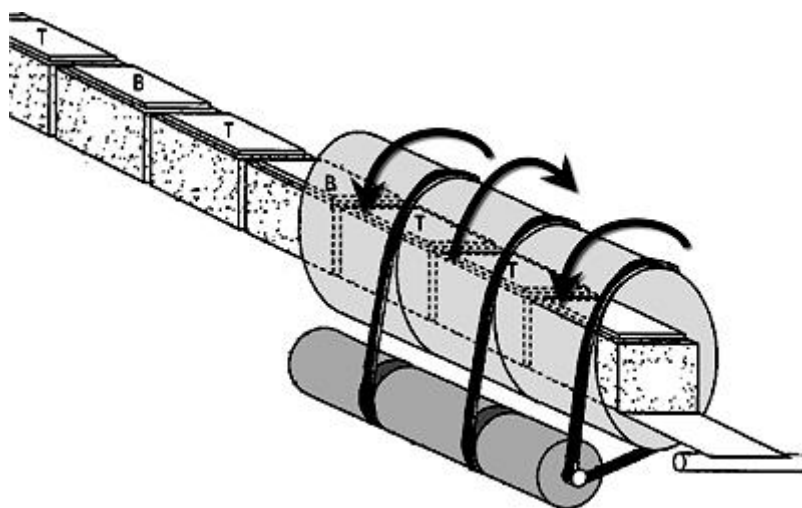
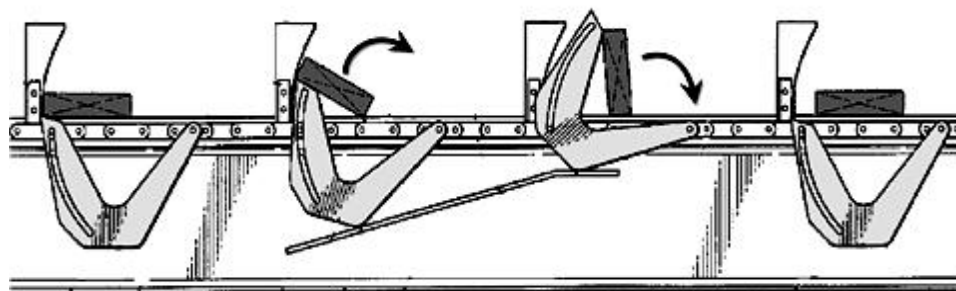
by turning over or inverting them ([B65G 47/244](#) takes precedence)

Definition statement

This place covers:

Only when (1) the article does NOT remain on the conveyor onto which is fed, (2) a separate conveyor or (3) an intersection between conveyors - does the function of turning

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

About an axis substantially perpendicular to the conveying direction	B65G 47/252
--	-----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

By turning over or inverting them during transit	B65G 47/244
--	-----------------------------

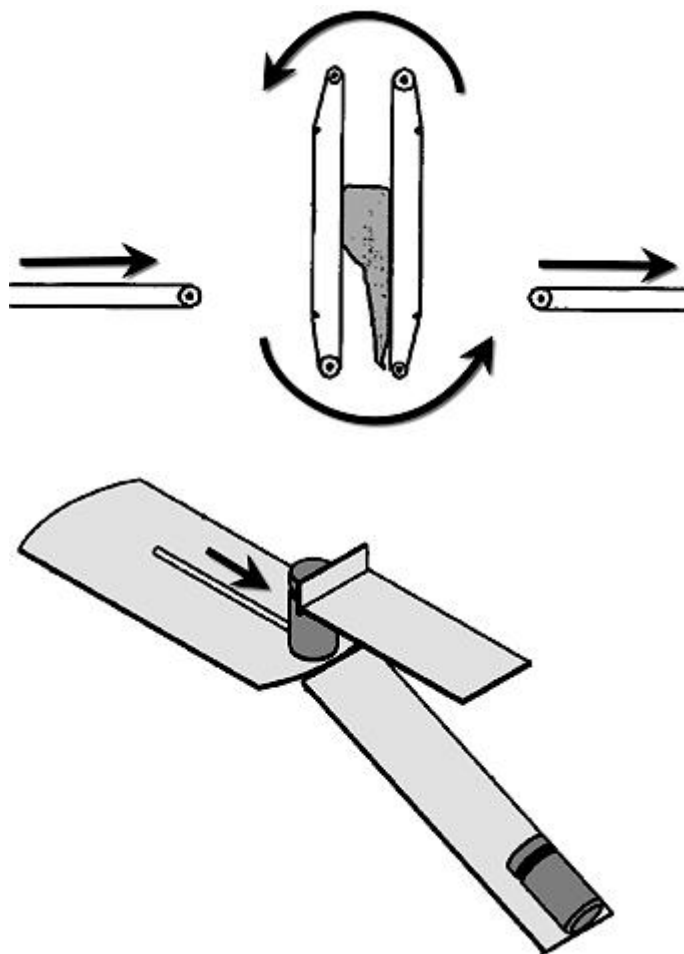
B65G 47/252

about an axis substantially perpendicular to the conveying direction

Definition statement

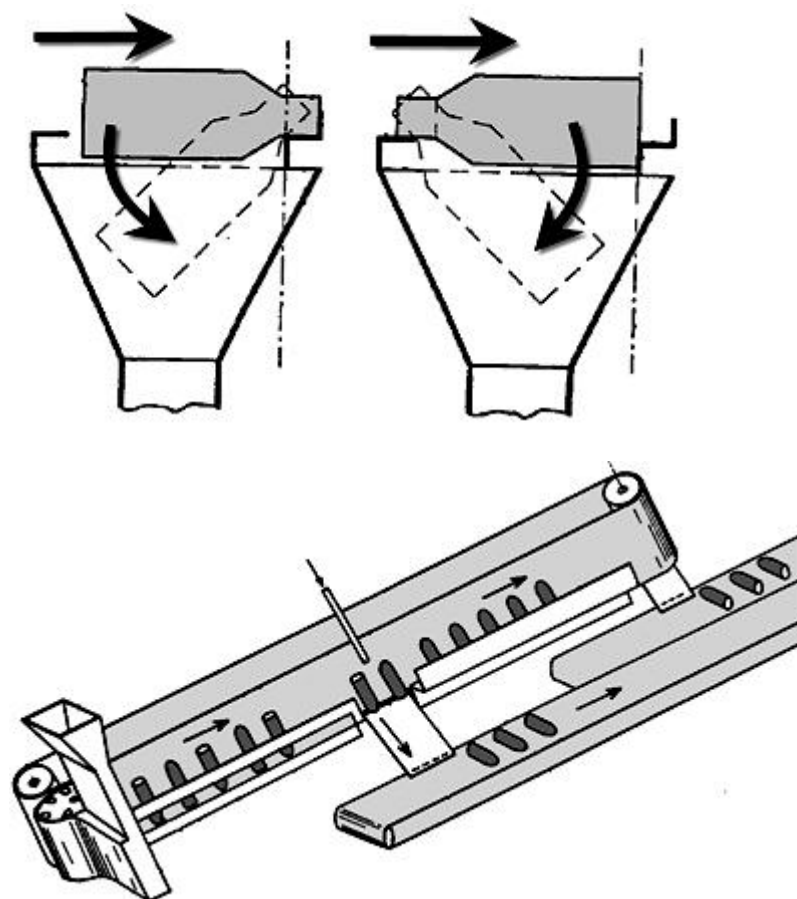
This place covers:

Illustrative example of subject matter classified in this group:

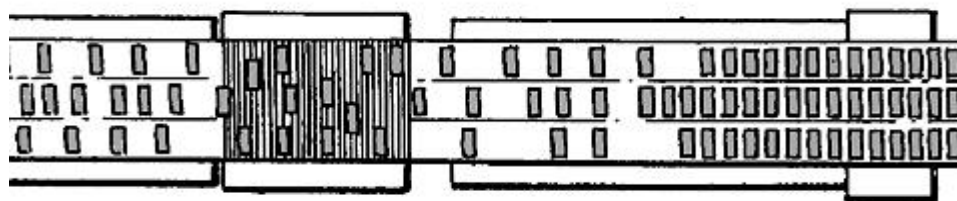


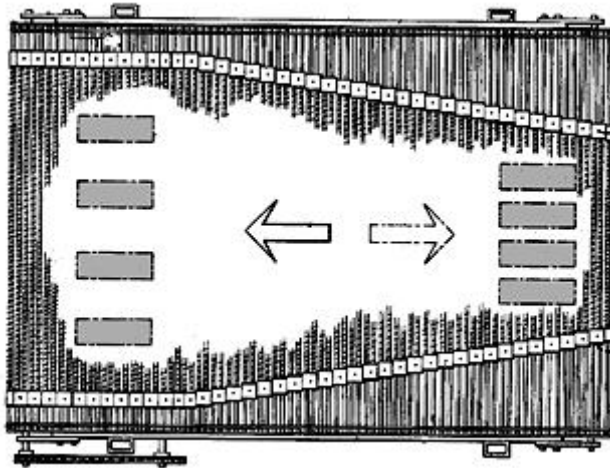
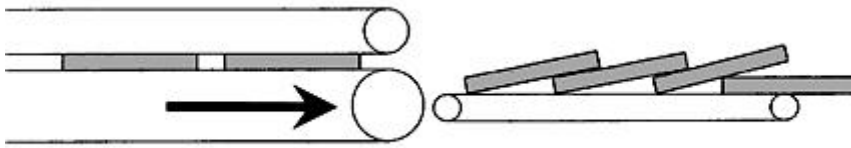
B65G 47/256**removing incorrectly orientated articles****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 47/26****arranging the articles, e.g. varying spacing between individual articles****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

By varying the relative speeds of the conveyors forming the series	B65G 47/31
Stacking or de-stacking	B65G 57/00 , B65G 59/00 , B65G 61/00
During transit	B65G 57/32 , B65G 59/12
Counting articles on a conveyor	G06M 7/00

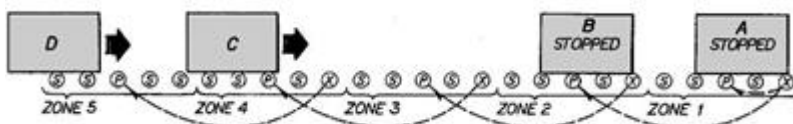
B65G 47/261

{Accumulating articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stops	B65G 47/88
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Control of drive	B65G 47/88
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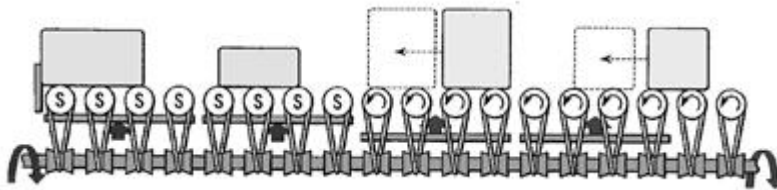
B65G 47/263

{the conveyor drive is taken from a longitudinally extending shaft}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Free-wheel gearing roller conveyor	B65G 13/073
------------------------------------	-----------------------------

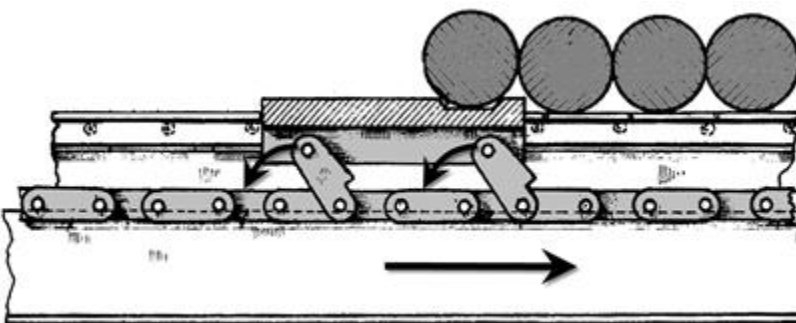
B65G 47/265

{with one or more load advancing units travelling along the entire length of the accumulation line}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

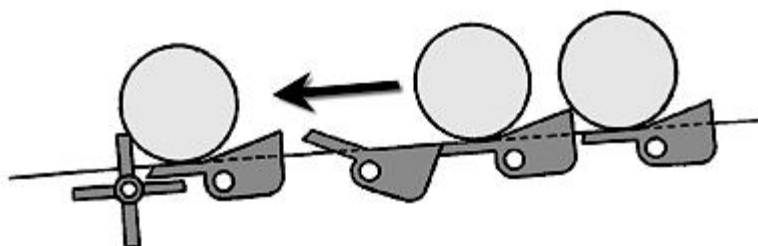
Informative references

Attention is drawn to the following places, which may be of interest for search:

Conveyors comprising a cyclically-moving	B65G 25/00
--	----------------------------

B65G 47/266**{by means of a series of pivotable stop elements}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

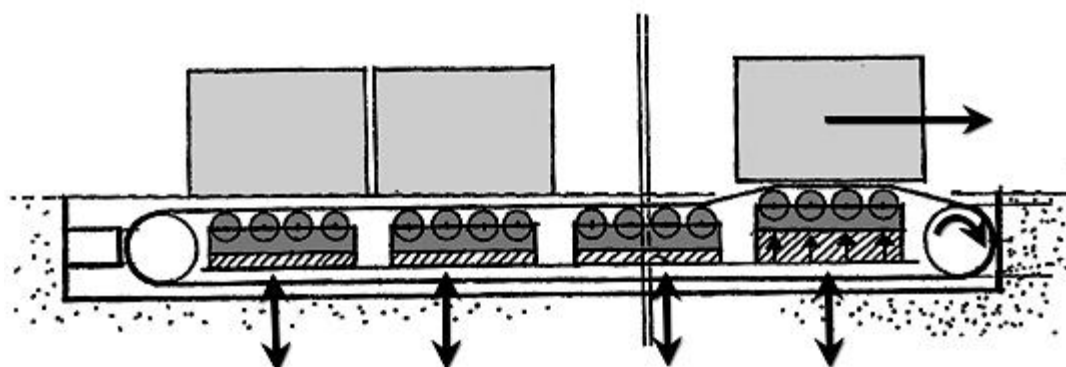
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Stop elements	B65G 47/8807
---------------	------------------------------

B65G 47/268**{by means of belt or chain conveyor}****Definition statement***This place covers:*

When the belt and the chain is the driving element

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

A belt or a chain can be the supporting element	B65G 47/261
---	-----------------------------

B65G 47/28

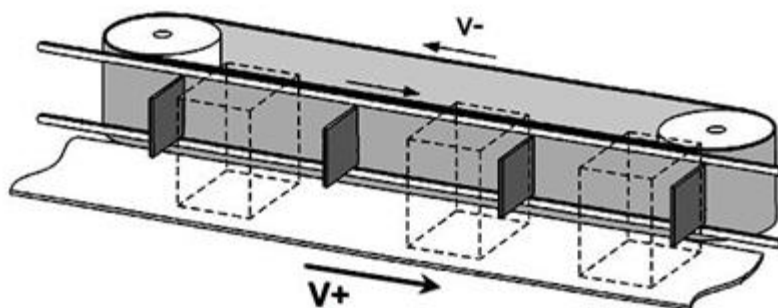
during transit by a single conveyor

Definition statement

This place covers:

Singulating articles

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Comprising a series of rollers which are moved	B65G 17/24
--	----------------------------

B65G 47/29

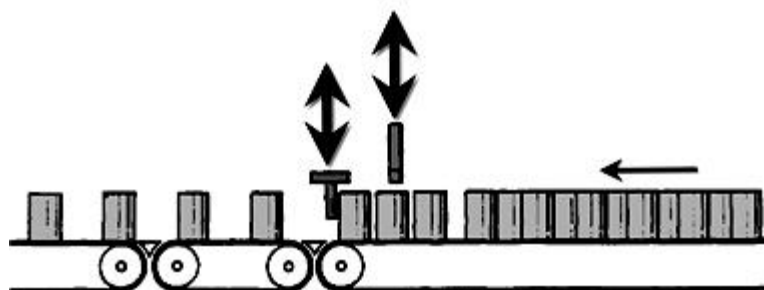
by temporarily stopping movement {(stopping elements [B65G 47/88](#))}

Definition statement

This place covers:

With moving elements to release the articles

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arranging the articles	B65G 47/26
------------------------	----------------------------

B65G 47/295

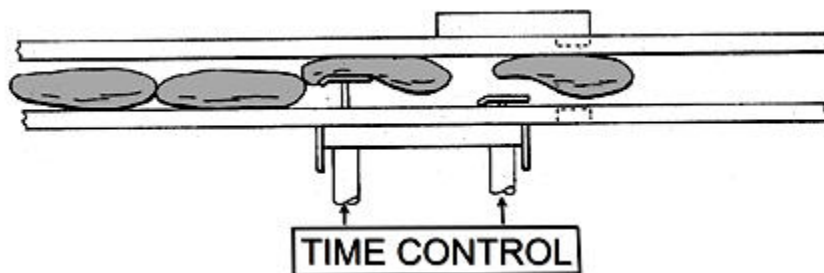
{by means of at least two stopping elements}

Definition statement

This place covers:

Stopping elements with time controlled release

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stops acting asynchronously	B65G 47/8884
-----------------------------	------------------------------

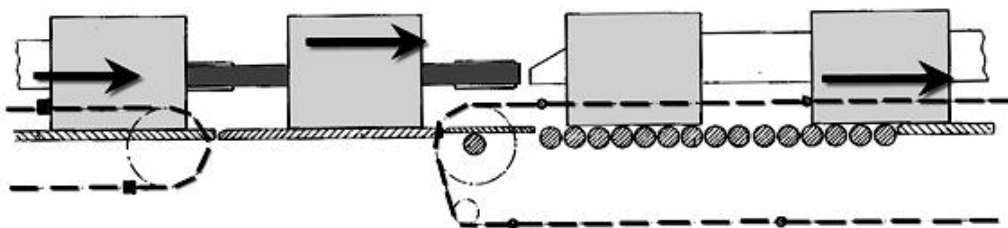
B65G 47/30

during transit by a series of conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



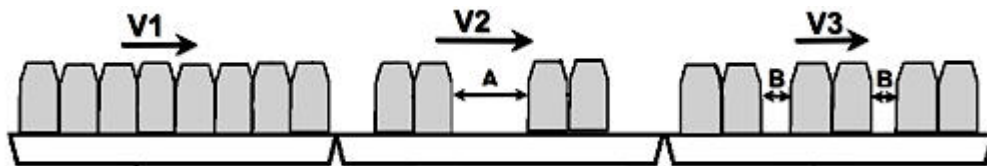
B65G 47/31

by varying the relative speeds of the conveyors forming the series

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Displacing the intersection between two conveyors having different speeds	B65G 21/14
Control	B65G 43/08
Sequence control of conveyors operating in combination	B65G 43/10

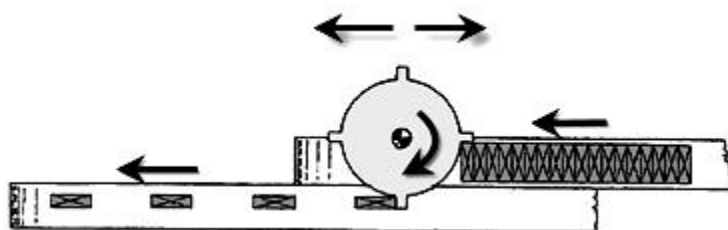
B65G 47/32

Applications of transfer devices {(such devices per se [B65G 47/74](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



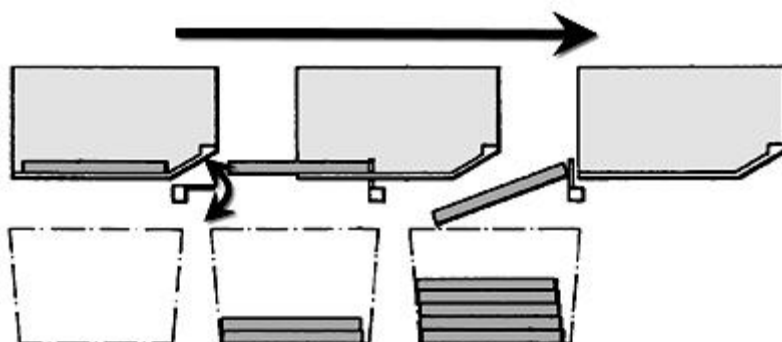
B65G 47/34

Devices for discharging articles or materials from conveyor
([B65G 47/256](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Removing incorrectly orientated articles	B65G 47/256
--	-----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Comprising a series of rollers which are moved	B65G 17/24
Sorting in general	B07

B65G 47/36

by detaching suspended articles

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

For articles	B65G 47/61
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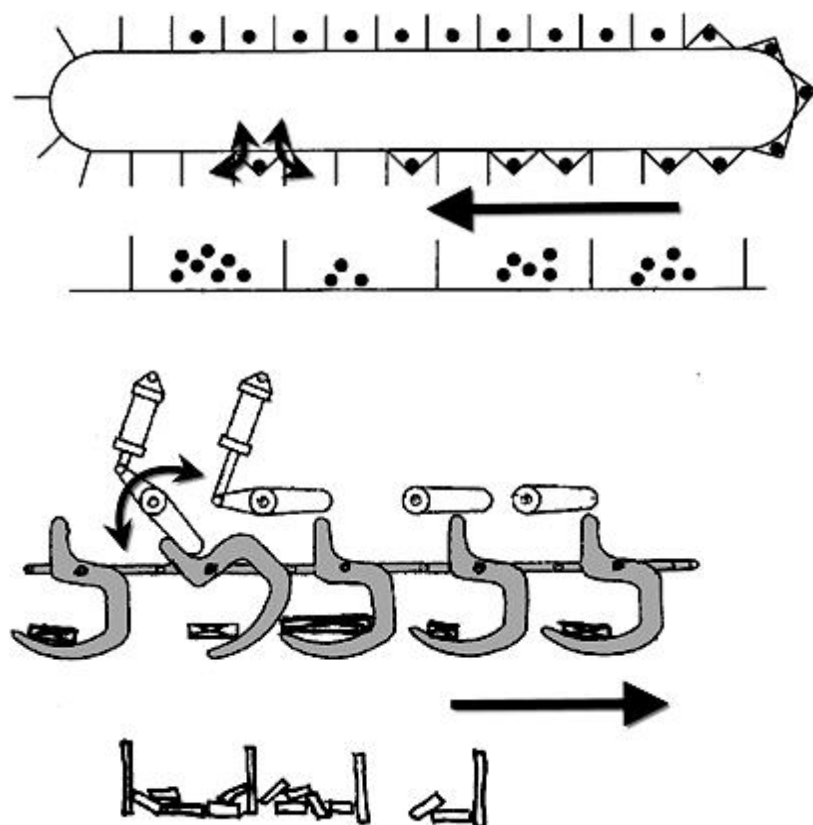
B65G 47/38

by dumping, tripping, or releasing load carriers (by flexing or tilting travelling structures [B65G 47/94](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

By tilting conveyor buckets	B65G 47/40
-----------------------------	----------------------------

Informative references

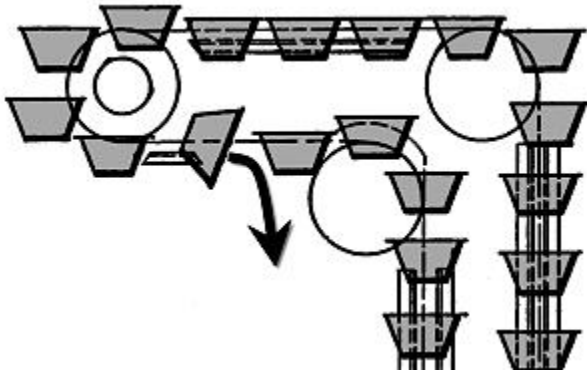
Attention is drawn to the following places, which may be of interest for search:

Basculating sideways	B65G 47/962
----------------------	-----------------------------

B65G 47/40**by tilting conveyor buckets****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

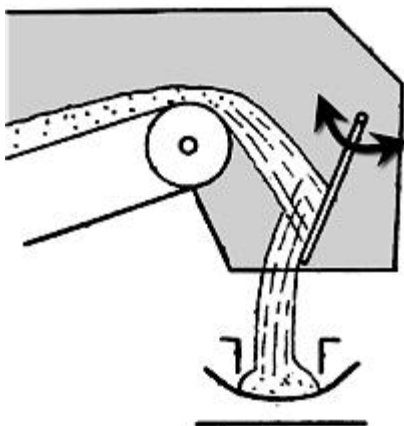
Attention is drawn to the following places, which may be of interest for search:

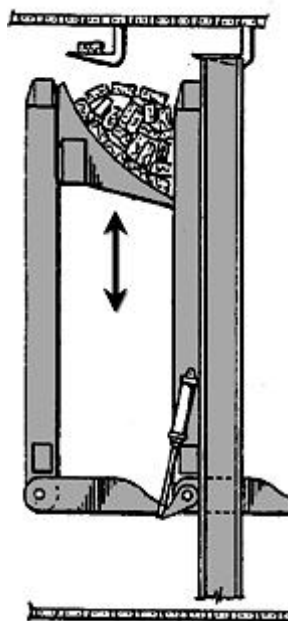
Construction of buckets conveyor	B65G 17/126
----------------------------------	-----------------------------

B65G 47/44**Arrangements or applications of hoppers or chutes****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for transferring articles or materials between conveyors	B65G 47/52
Fixed platforms or combs	B65G 47/66

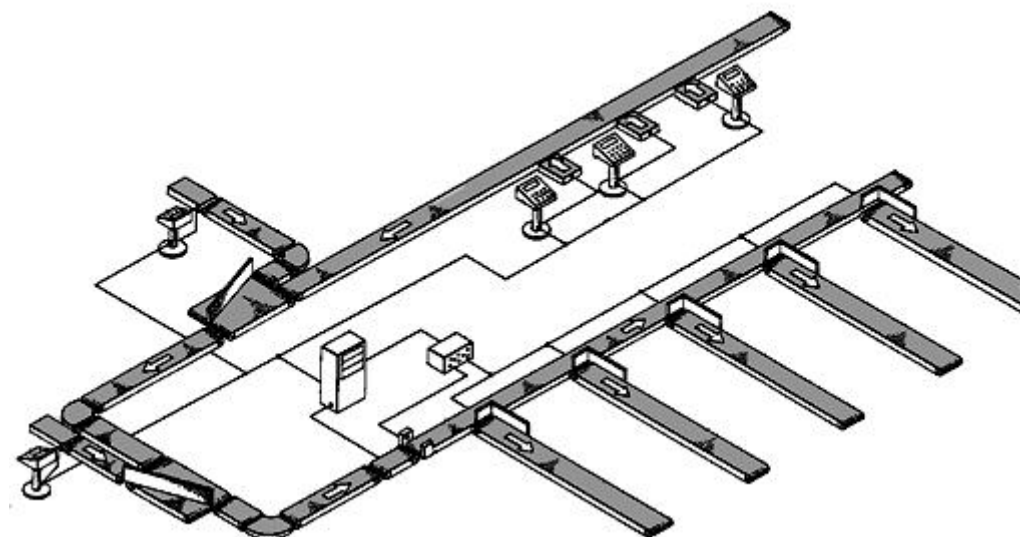
B65G 47/46

and distributing, e.g. automatically, to desired points (in tube mail systems [B65G 51/36](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

In tube mail systems	B65G 51/36
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Pivotable chutes	B65G 11/12
Postal sorting or the like	B07C
In railways operations	B61L
Handling sheets or thin flat articles	B65H
Systems or methods specially adapted for administrative, commercial, financial, managerial or supervisory purposes	G06Q

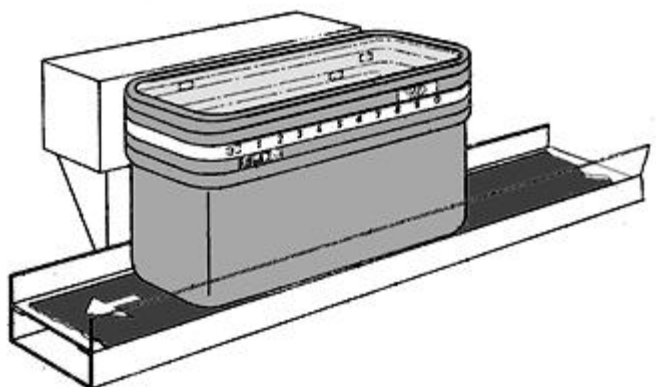
B65G 47/48

according to bodily destination marks on either articles or load-carriers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References*****Informative references***

Attention is drawn to the following places, which may be of interest for search:

Marking data records	G06K
----------------------	----------------------

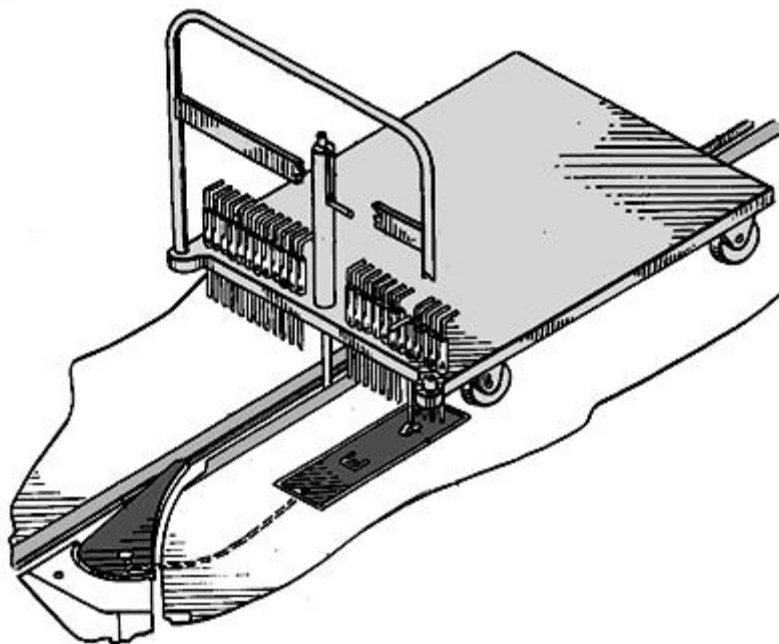
B65G 47/482

{using exclusively mechanical transmitting means between destination marks and switching means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

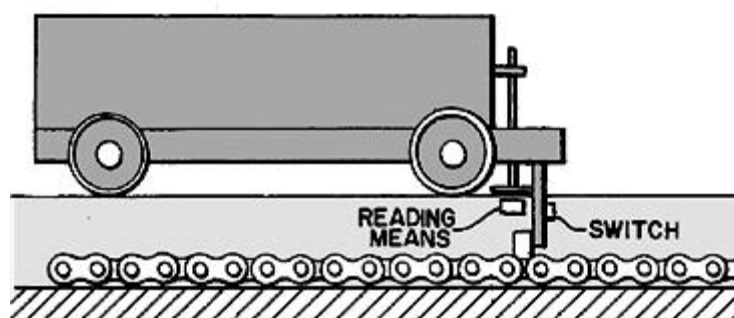
**B65G 47/485**

{using electric or electronic transmitting means between destination marks and switching means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



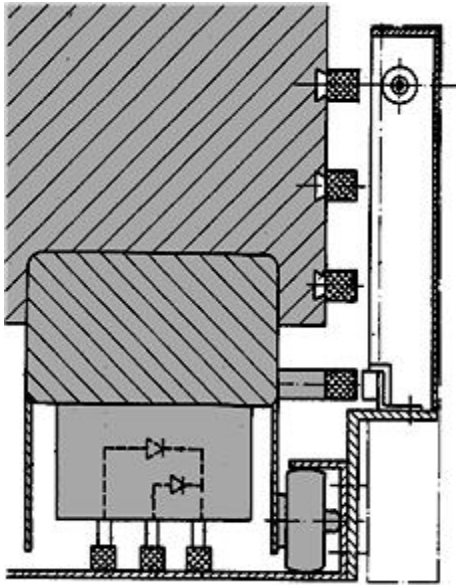
B65G 47/487

{the destination marks being mechanically detected}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 47/49**

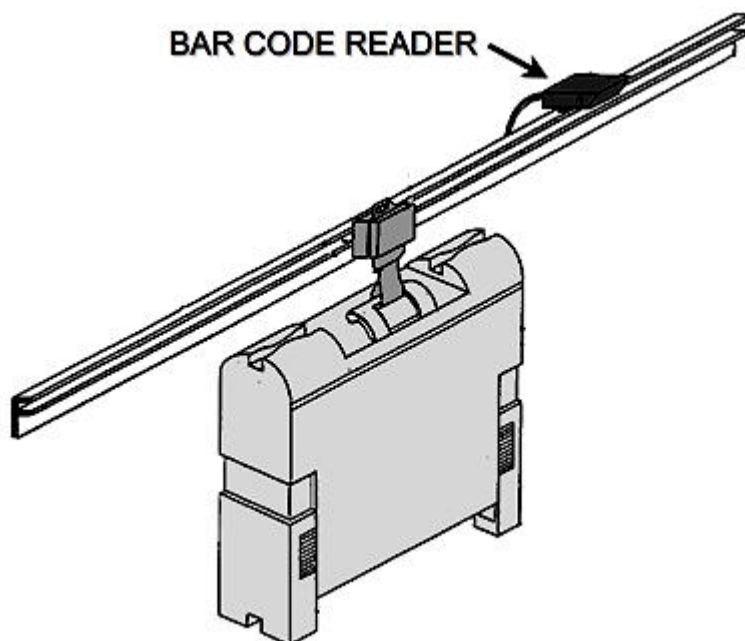
without bodily contact between article or load carrier and automatic control device {, e.g. the destination marks being electrically or electronically detected}

Definition statement

This place covers:

Direct action of the switch after reading the correct code (data not stored in a computer)

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods or arrangements for sensing record carriers	G06K 7/00
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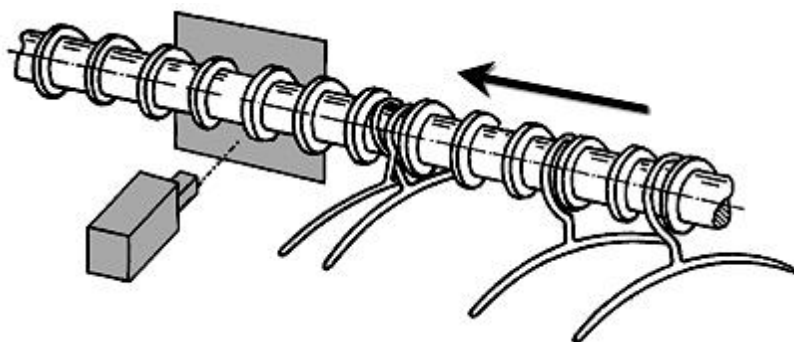
B65G 47/493

{by use of light responsive means}

Definition statement

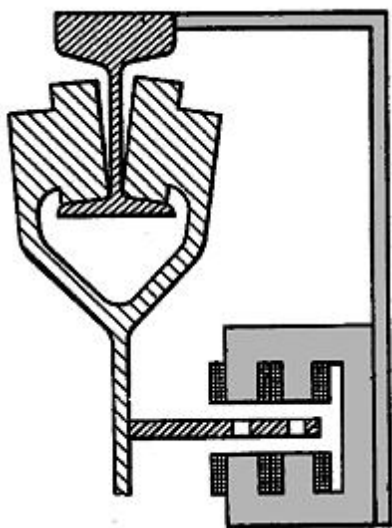
This place covers:

Illustrative example of subject matter classified in this group:

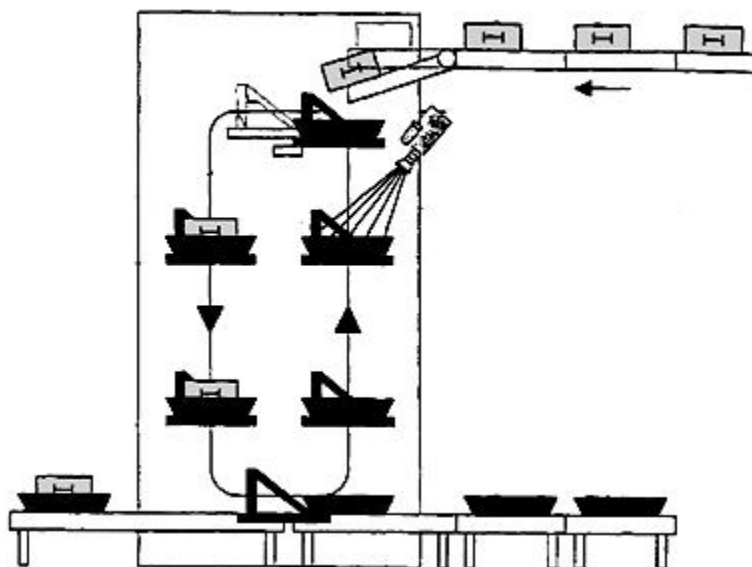


B65G 47/496**{by use of magnetic responsive means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

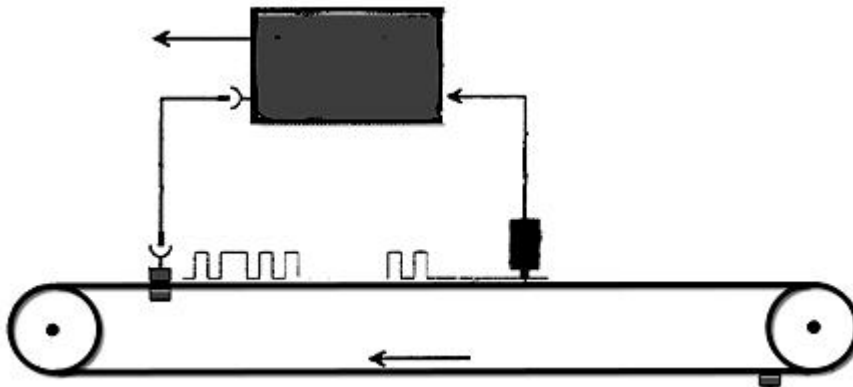
**B65G 47/50****according to destination signals stored in separate systems****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

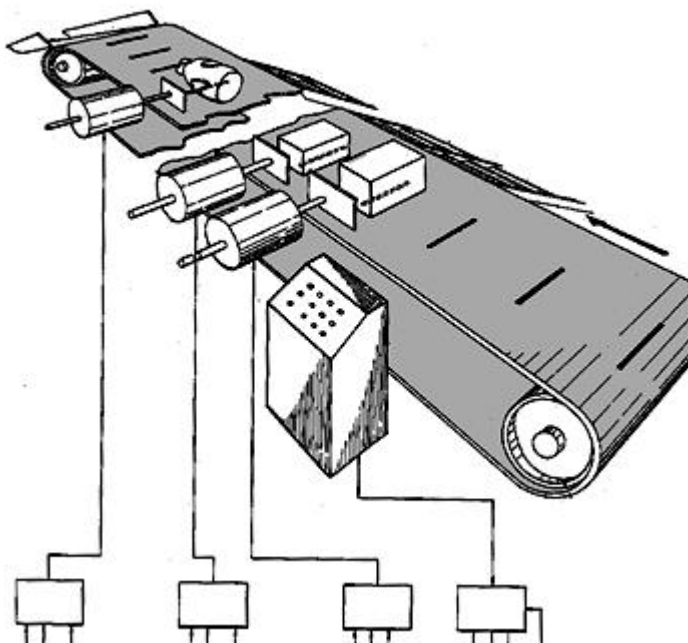


B65G 47/503**{the system comprising endless moving means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

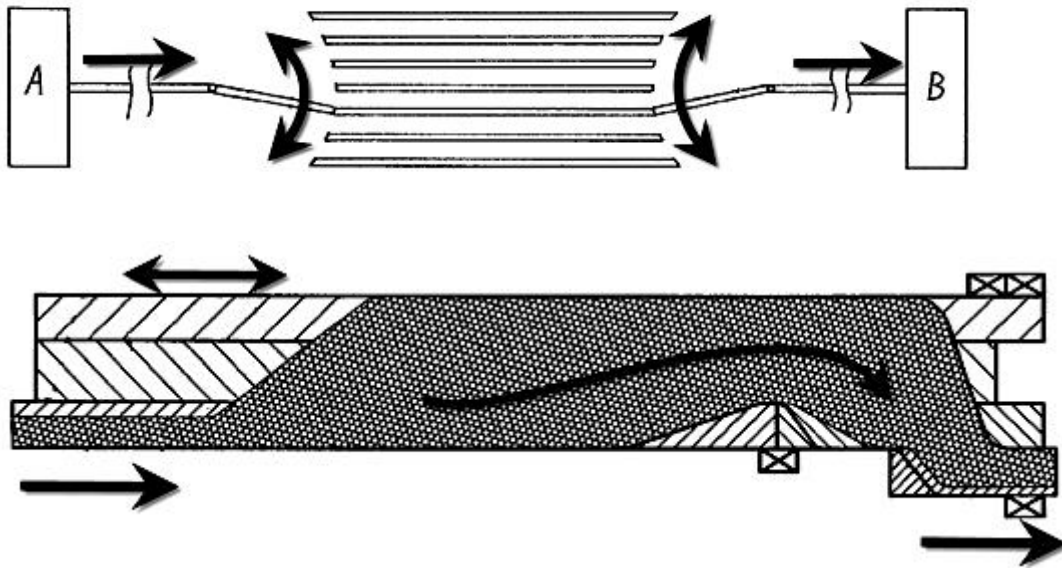
**B65G 47/506****{the system comprising a shift-register}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



B65G 47/5104**{for articles}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

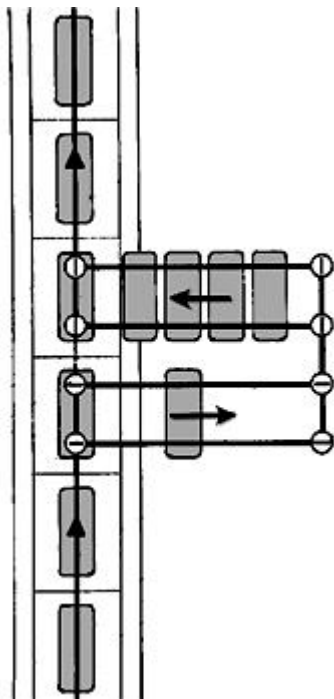
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

With recirculation of articles forming a buffer	B65G 47/684
---	-----------------------------

B65G 47/5109**{first In - First Out systems: FIFO}****Definition statement***This place covers:*

FIFO = the order of all incoming articles is maintained at the exit

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

FIFO = the order of all incoming articles is maintained at the exit otherwise:	B65G 47/5104
--	------------------------------

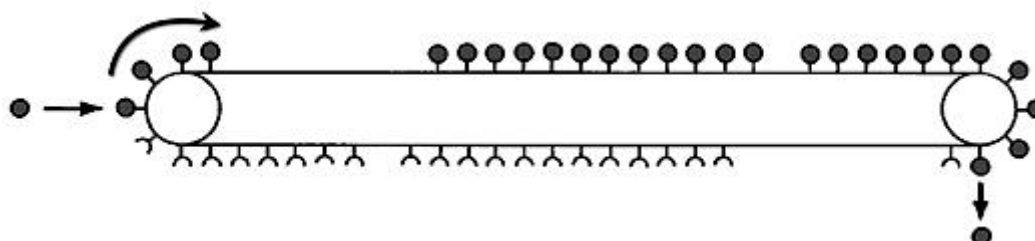
B65G 47/5113

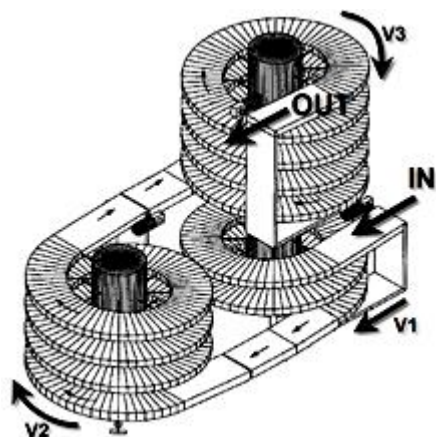
{using endless conveyors ([B65G 47/5145](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Grouping articles in rows	B65G 47/082
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B65G 47/5122

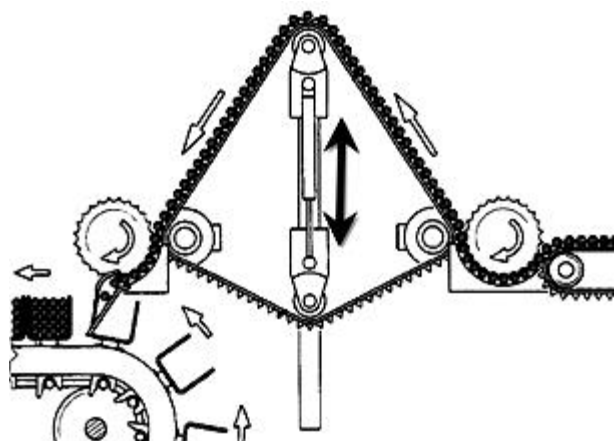
{by displacement of the conveyor-guiding means, e.g. of the loose pulley-type
([B65G 47/5127](#) takes precedence)}

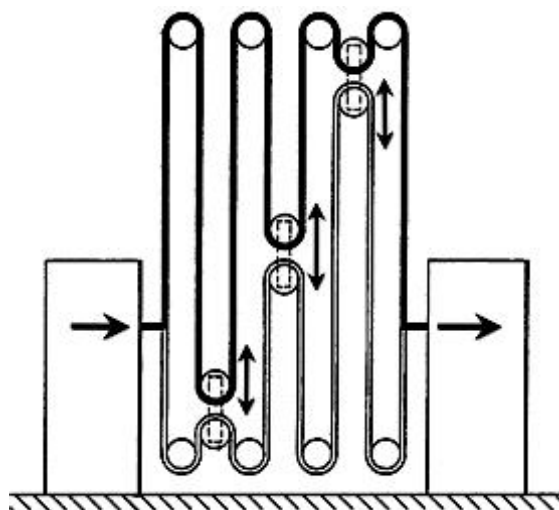
Definition statement

This place covers:

The configuration of the conveyor changes

Illustrative example of subject matter classified in this group:





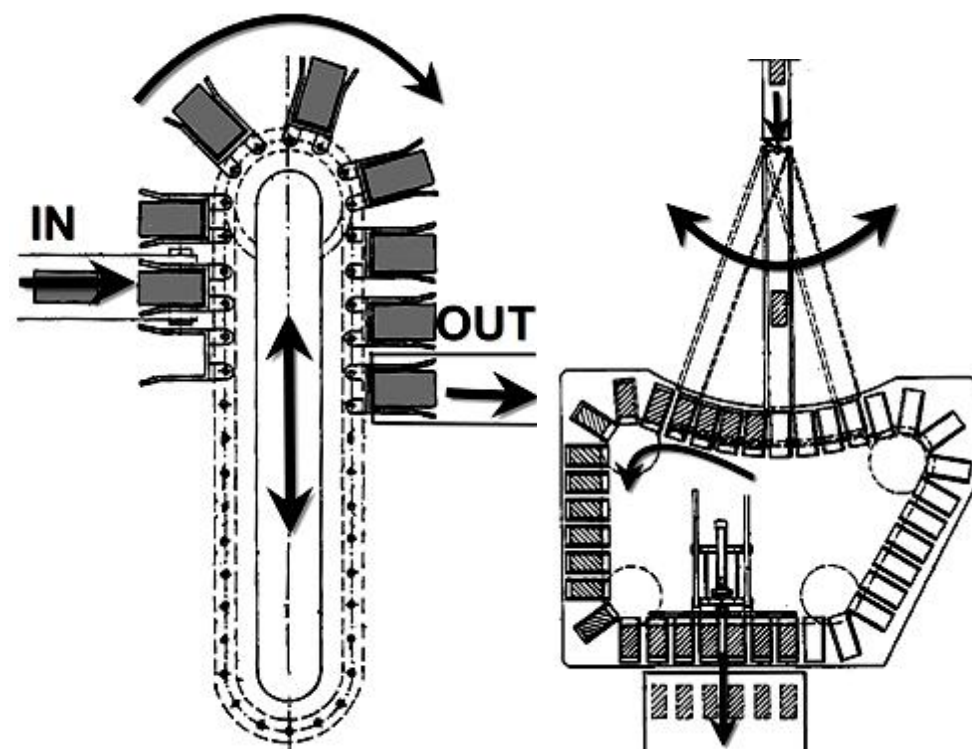
B65G 47/5127

{by relative displacement between conveyor and input or output}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

By displacement of the conveyor-guiding means	B65G 47/5122
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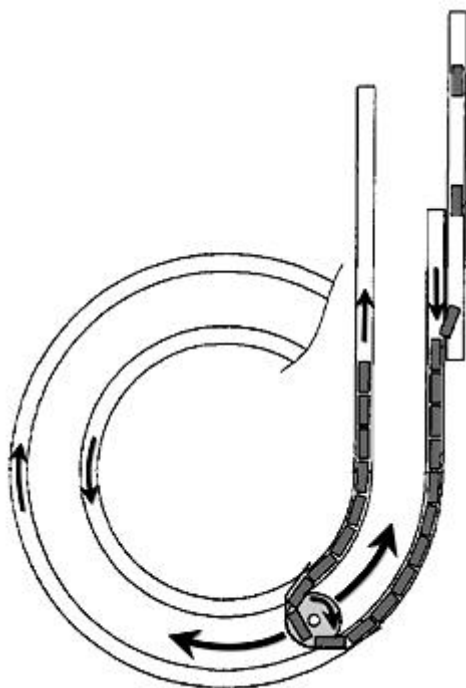
B65G 47/5131

{by relative displacement between conveyors or conveyor parts and bridging means therebetween}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 47/5136**

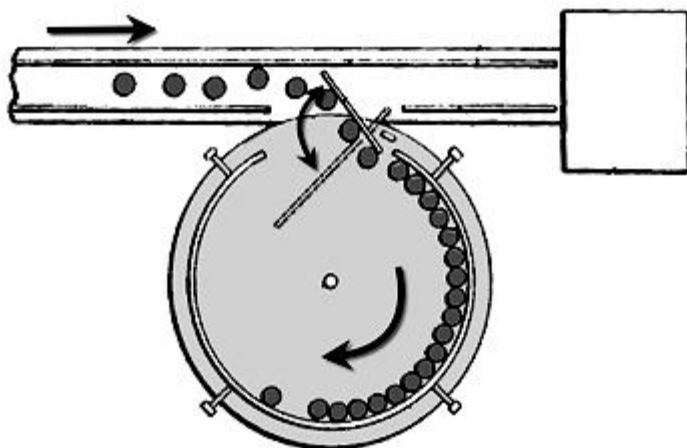
{using rotary conveyors}

Definition statement

This place covers:

The storing device is a rotary conveyor

Illustrative example of subject matter classified in this group:



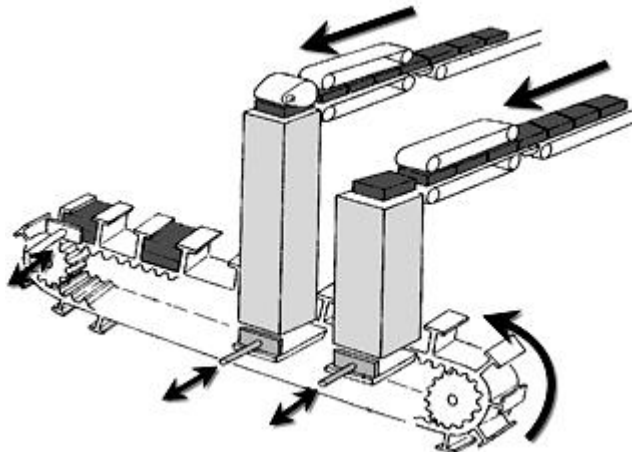
B65G 47/514

{using stacking and/or destacking arrangements or stacks of articles or article carriers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

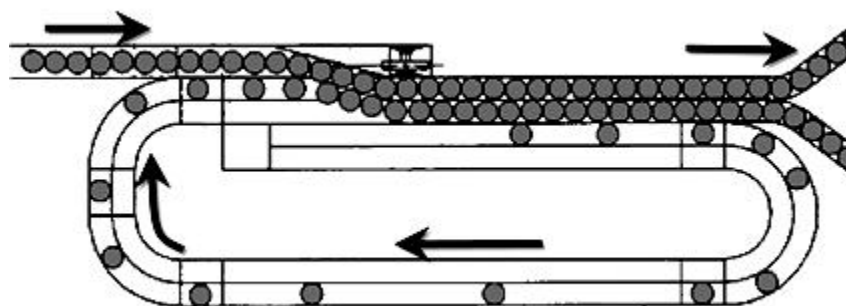
Informative references

Attention is drawn to the following places, which may be of interest for search:

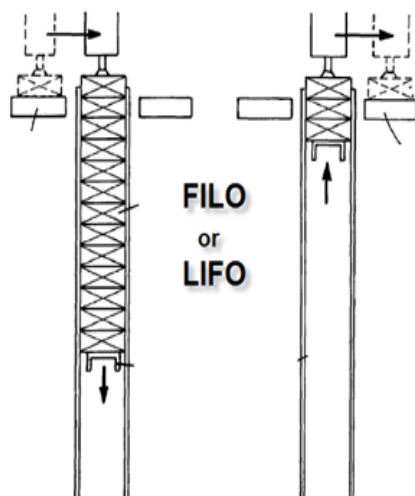
Using stacking or destacking arrangements or stacks of articles or article-carriers	B65G 47/5181
---	------------------------------

B65G 47/5145**{with recirculation means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Rotary disk conveyor	B65G 47/5136
----------------------	------------------------------

B65G 47/515**{First In-Last Out systems [FILO]; Last In-First Out systems [LIFO]}****Definition statement***This place covers:*

References

Limiting references

This place does not cover:

FILO = the order of all outgoing articles is precisely the opposite of the order of the incoming articles (otherwise:	B65G 47/5104
--	------------------------------

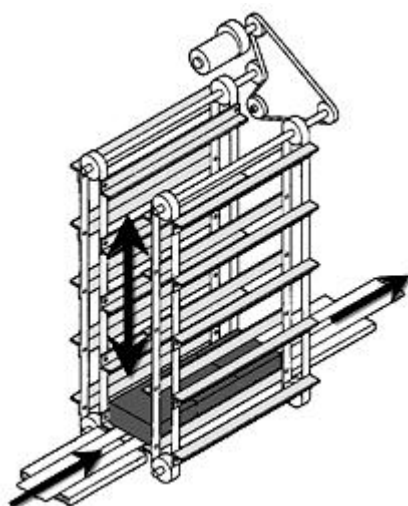
B65G 47/5154

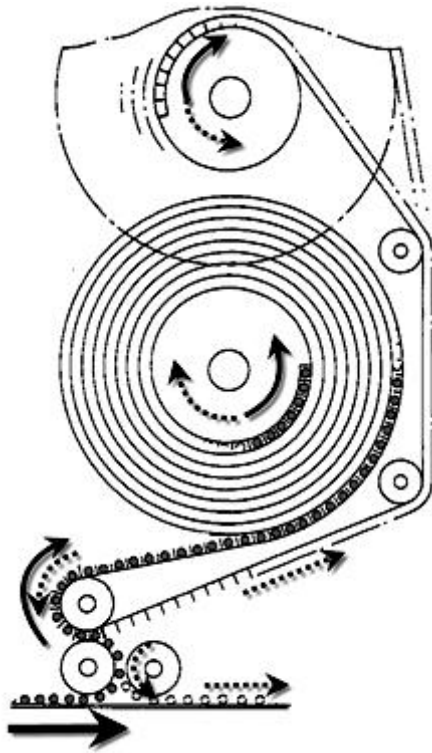
{using endless conveyors ([B65G 47/5186](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





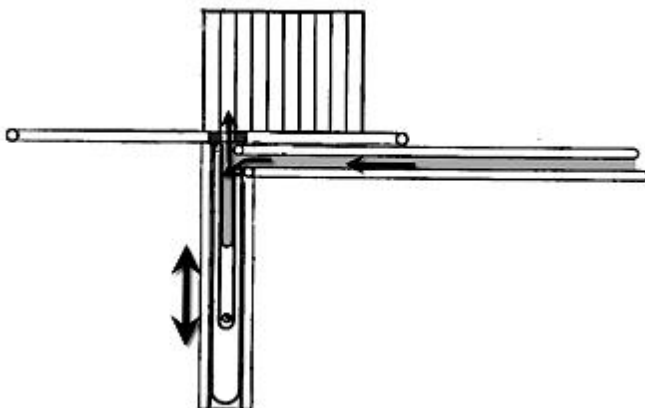
B65G 47/5159

{with variable accumulation capacity}

Definition statement

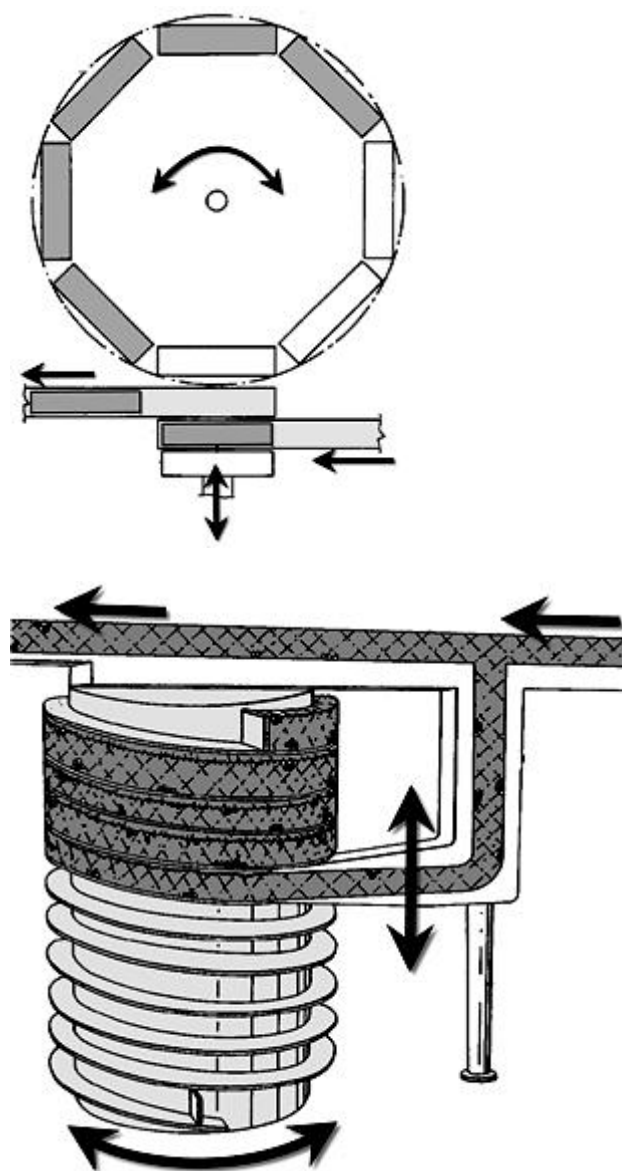
This place covers:

Illustrative example of subject matter classified in this group:



B65G 47/5177**{using rotary conveyor(s)}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



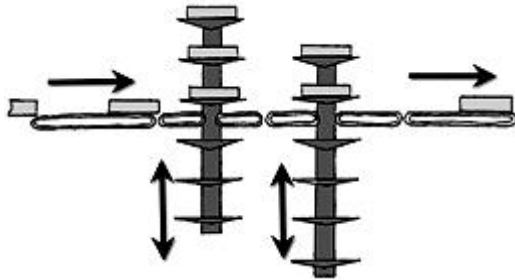
B65G 47/5181

{using stacking or destacking arrangements or stacks of articles or article-carriers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

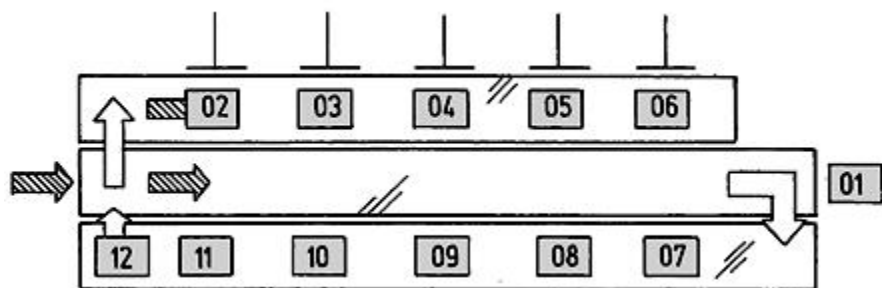
**B65G 47/5186**

{with recirculation means}

Definition statement

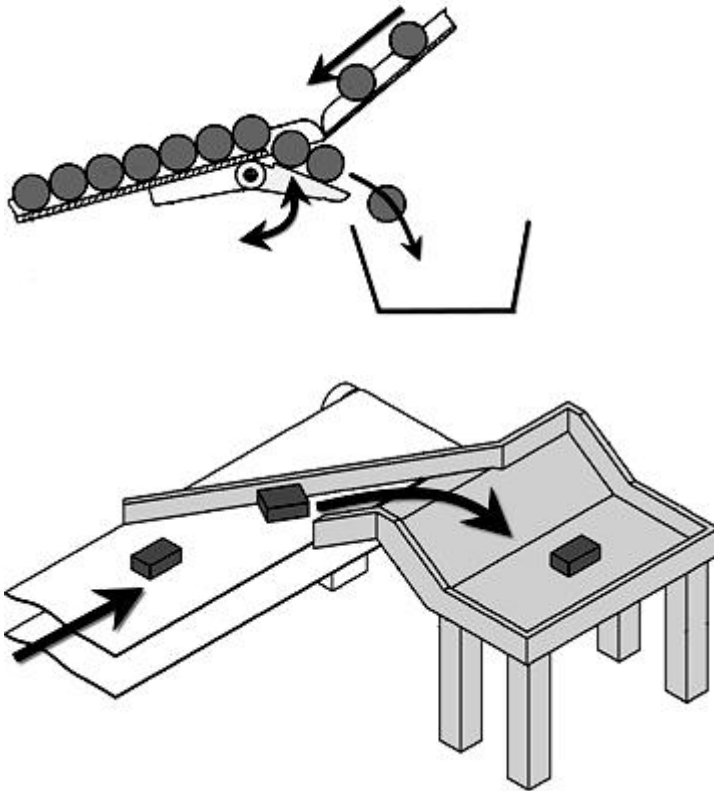
This place covers:

Illustrative example of subject matter classified in this group:

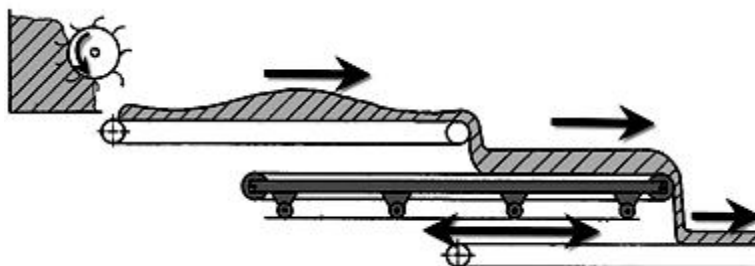


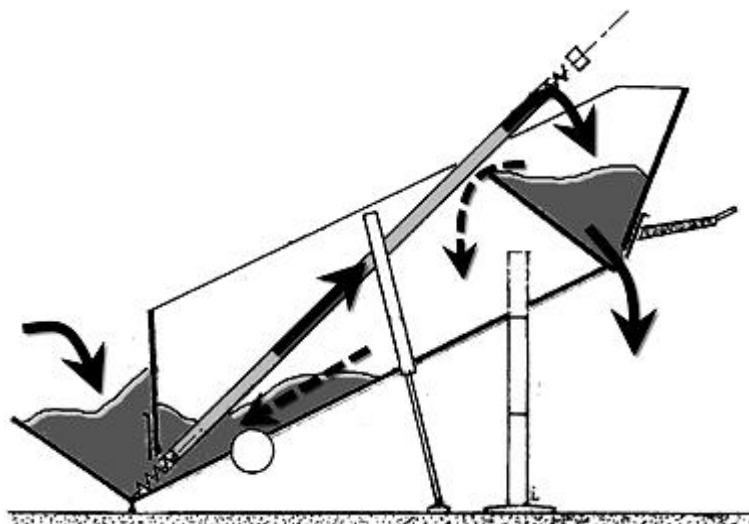
B65G 47/519**{collecting tables or bins as end-station}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 47/5195****{for materials in bulk}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements or applications of hoppers or chutes having means for controlling material flow
--

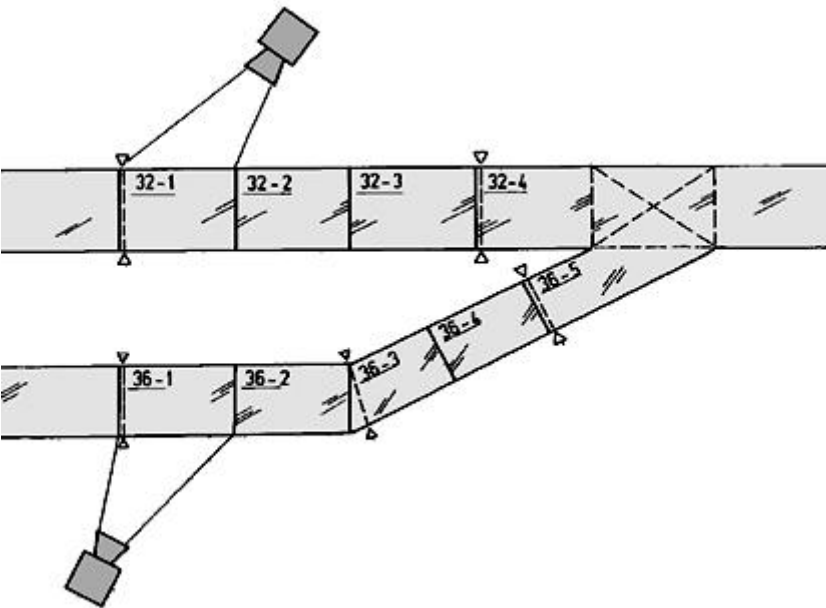
B65G 47/19

B65G 47/52

Devices for transferring articles or materials between conveyors i.e. discharging or feeding devices (loading or unloading by means not incorporated in, or not operatively associated with, conveyors [B65G 65/00](#); transfer of workpieces during metal rolling [B21B 41/00](#))

Definition statement

This place covers:
Illustrative example of subject matter classified in this group:



References

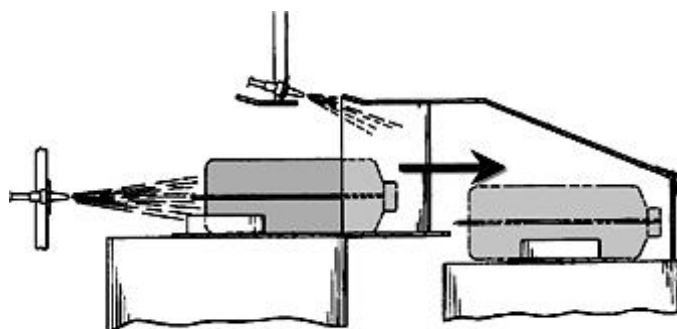
Limiting references

This place does not cover:

Loading or unloading by means not incorporated in, or not operatively associated with, conveyors	B65G 65/00
Transfer of workpieces during metal rolling	B21B 41/00

B65G 47/525**{using fluid jets}****Definition statement***This place covers:*

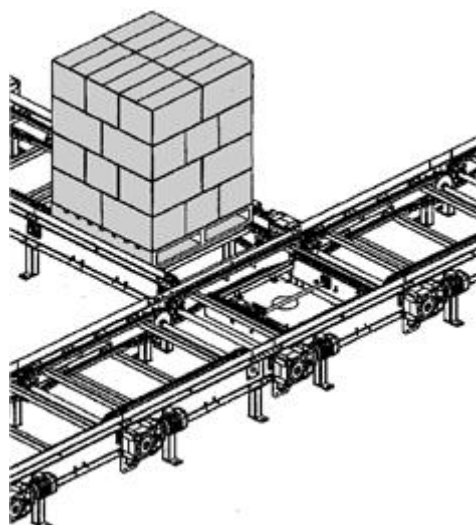
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Sorting	B07C 5/363
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B65G 47/53**between conveyors which cross one another****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pallets on a closed track	B65G 35/06
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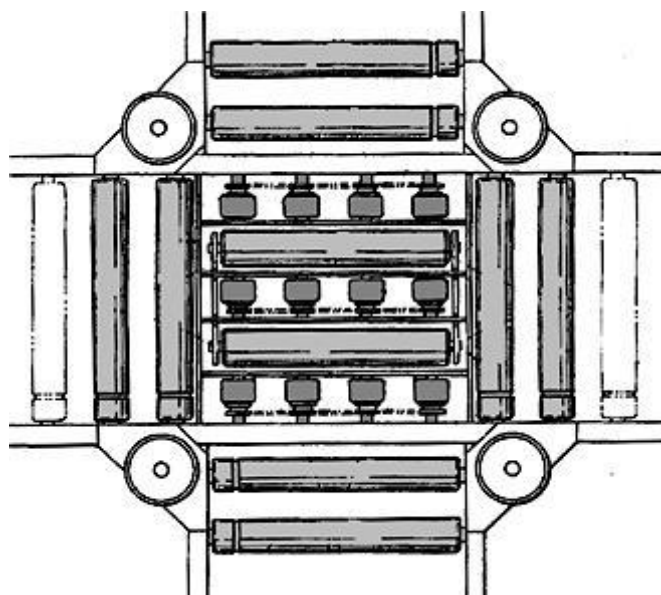
B65G 47/54

at least one of which is a roller-way

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Switching arrangements	B65G 13/10
Having spherical roller elements	B65G 39/025

B65G 47/57

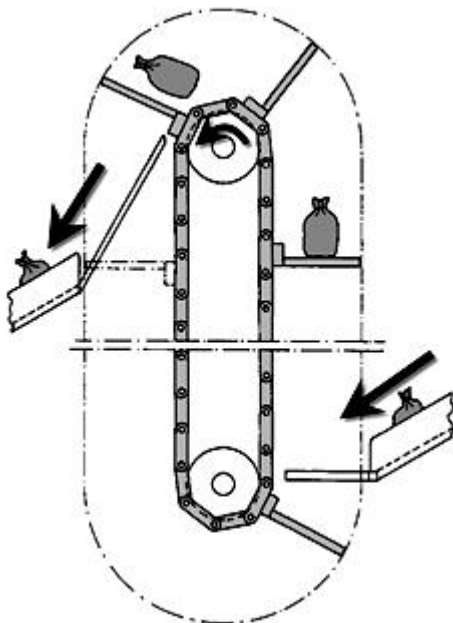
for articles

Definition statement

This place covers:

Devices transferring discrete articles to or from inclined or vertical conveyor sections. These devices and conveyors have usually different inherent features than those destined for bulk (powdery, ore, etc) material.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arranged to keep the load-carriers horizontally during at least a part of the conveyor run
--

B65G 17/123

B65G 47/58

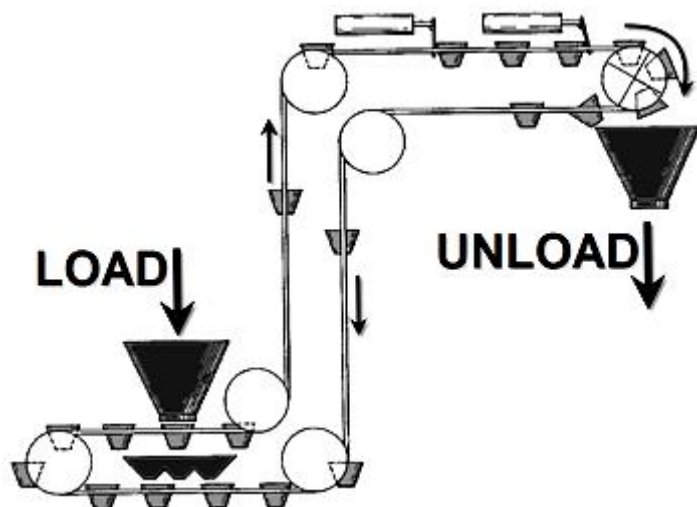
for materials in bulk

Definition statement

This place covers:

Devices transferring bulk (powdery, ore, etc) material to or from inclined or vertical conveyor sections. These devices and conveyors have usually different inherent features than those destined for discrete articles.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bucket conveyor	B65G 17/126
Tilting buckets	B65G 47/40

B65G 47/61

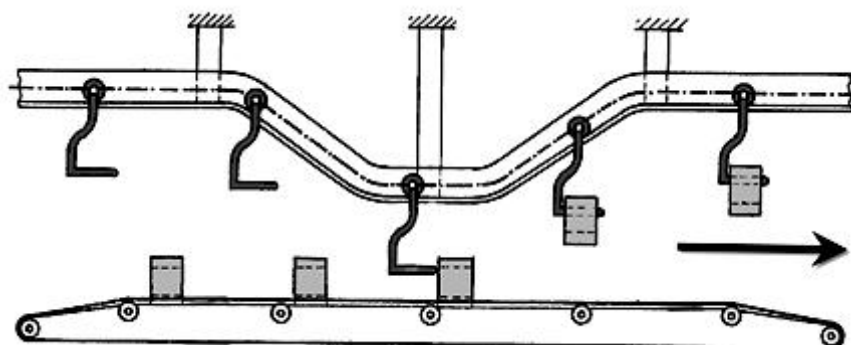
for articles

Definition statement

This place covers:

Devices transferring discrete articles to or from inclined or vertical conveyor sections. These devices and conveyors have usually different inherent features than those destined for bulk (powdery, ore, etc) material.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Clotheshanger	B65G 2201/0229
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B65G 47/62

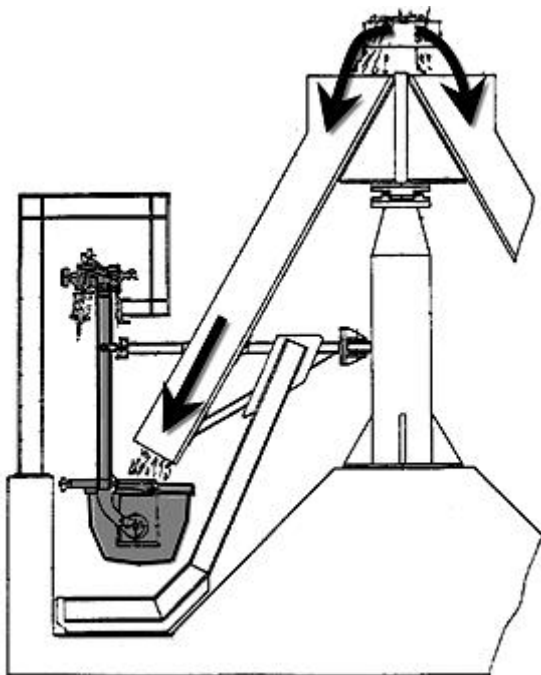
for materials in bulk

Definition statement

This place covers:

Devices transferring bulk (powdery, ore, etc) material to or from inclined or vertical conveyor sections. These devices and conveyors have usually different inherent features than those destined for discrete articles.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bucket elevators	B65G 47/58
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B65G 47/64

Switching conveyors

References

Limiting references

This place does not cover:

Switch guides (scraper) in a conveyor line	B65G 47/76
--	----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

For articles	B65G 47/71
For bulk	B65G 47/72
Pneumatic conveyors	B65G 53/56

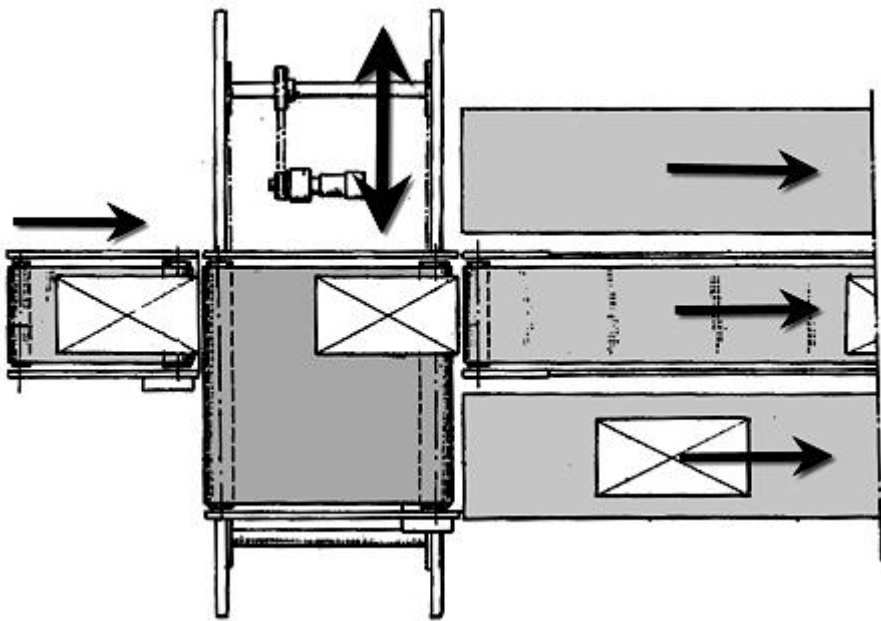
B65G 47/642

{in a horizontal plane}

Definition statement

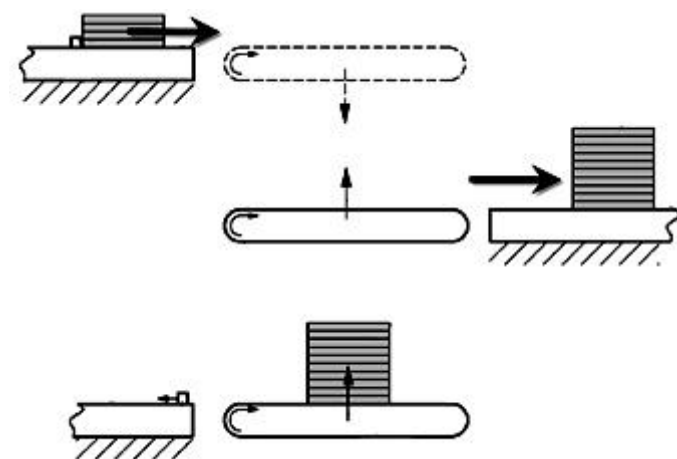
This place covers:

Illustrative example of subject matter classified in this group:



B65G 47/643**{in a vertical plane}****Definition statement***This place covers:*

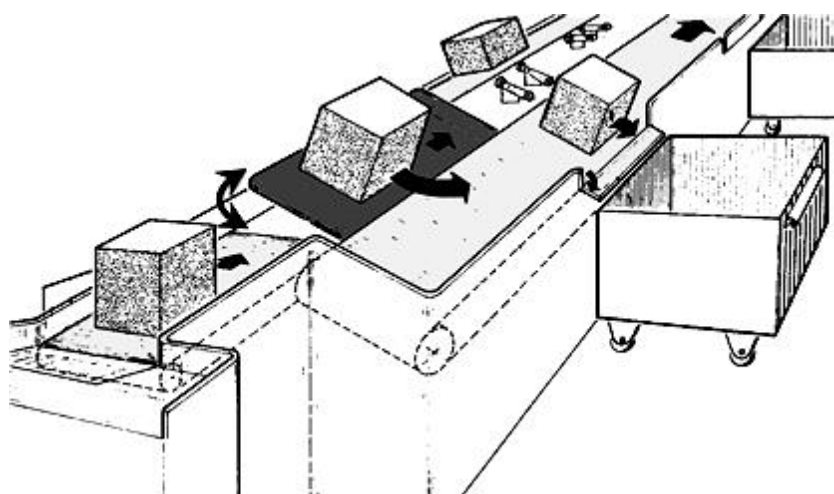
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For articles	B65G 53/56
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B65G 47/646**{the axis being parallel to the conveying direction}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for tilting links or platform	B65G 47/96
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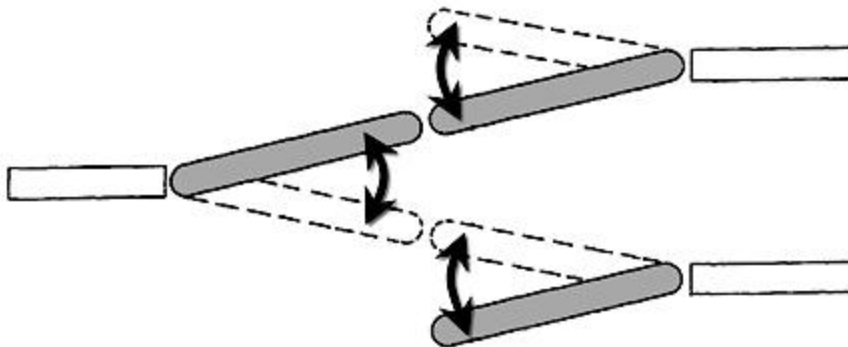
B65G 47/647

{the axis being perpendicular to the conveying direction}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



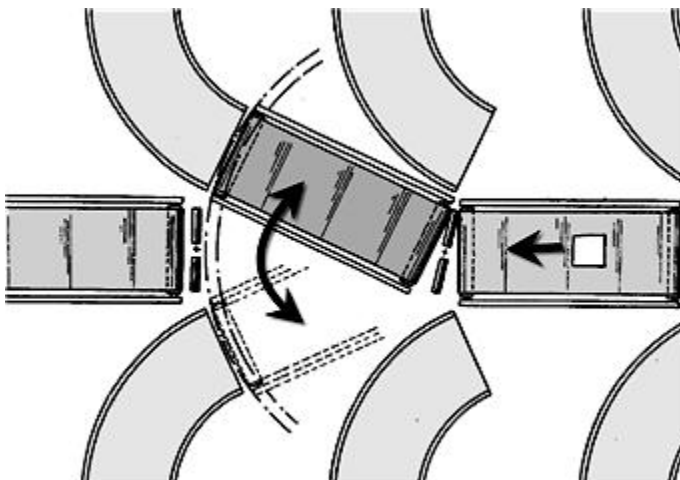
B65G 47/648

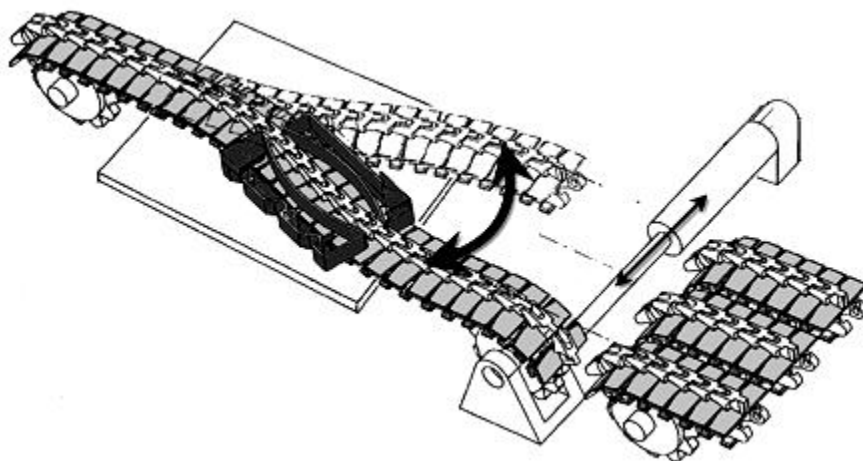
{about a vertical axis}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Switching conveyors in a horizontal plane	B65G 47/642
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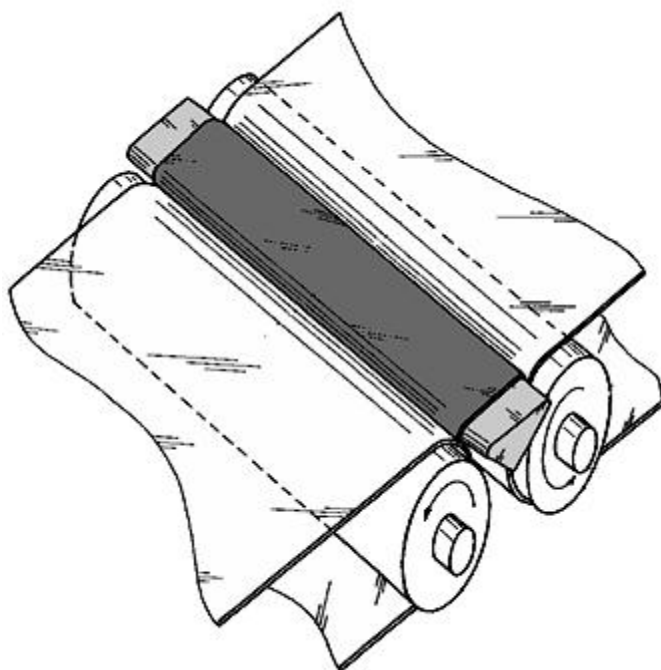
B65G 47/66

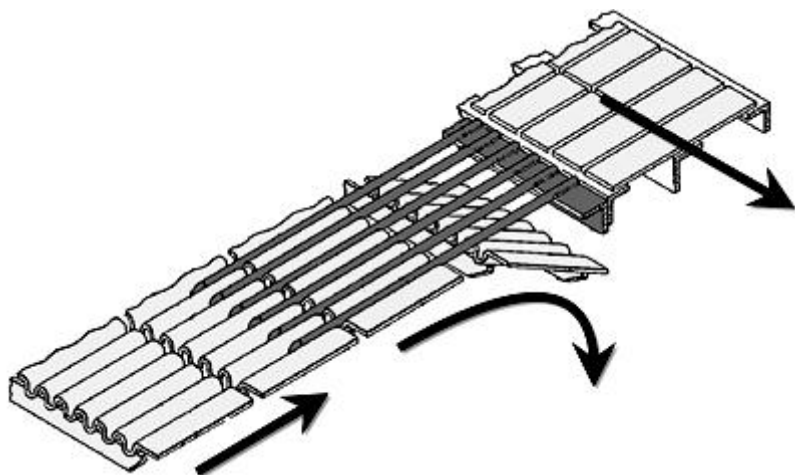
Fixed platforms or combs, e.g. bridges between conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





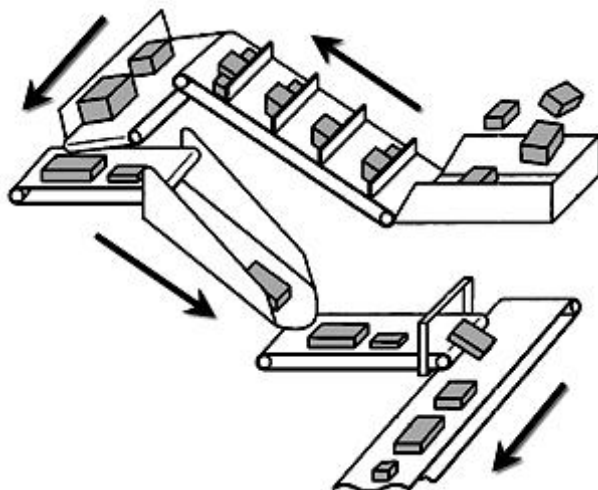
B65G 47/68

adapted to receive articles arriving in one layer from one conveyor {lane} and to transfer them in individual layers to more than one conveyor {lane or to one broader conveyor lane}, or vice versa, e.g. combining the flows of articles conveyed by more than one conveyor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

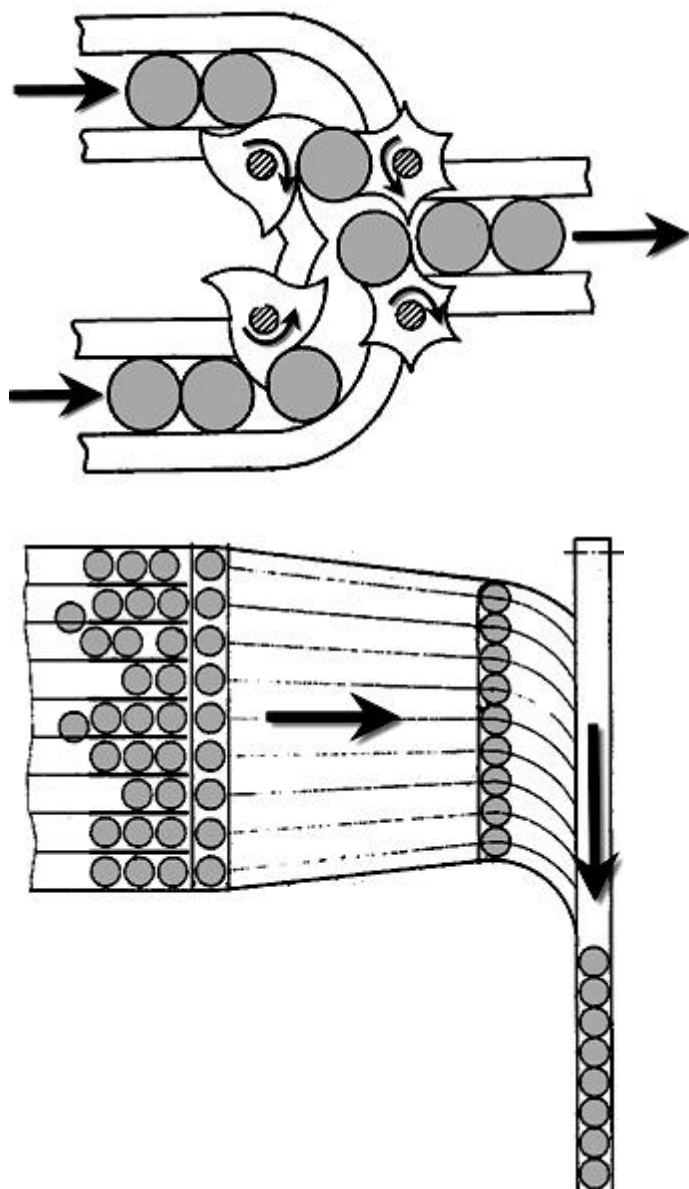


Special rules of classification

Series of different conveyors in different directions to arrange articles in a row.

B65G 47/681**{from distinct, separate conveyor lanes}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Devices for transferring articles or materials between conveyors	B65G 47/52
Devices for preventing jamming in converging flows	B65G 2047/685
Control of the drive of the conveyors	B65G 47/70

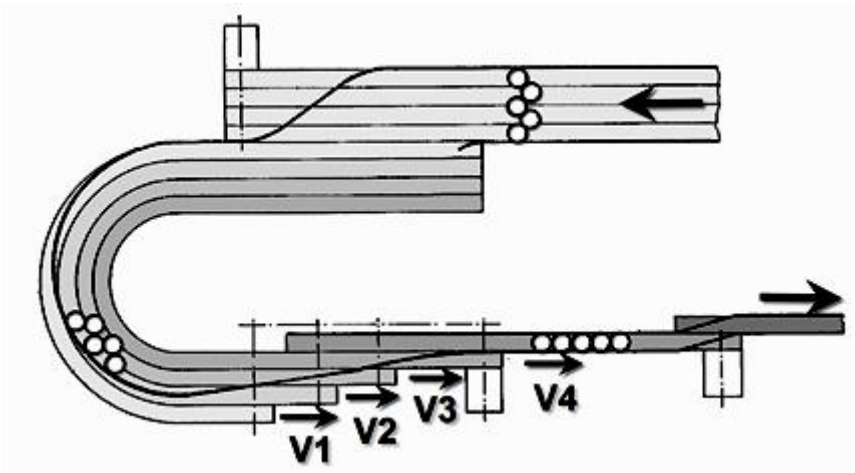
B65G 47/682

{from a single conveyor lane consisting of one conveyor or several adjacent conveyors}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Accumulating articles by varying the relative speeds of the conveyors forming the serie	B65G 47/31
Guides for preventing jamming	B65G 2047/685

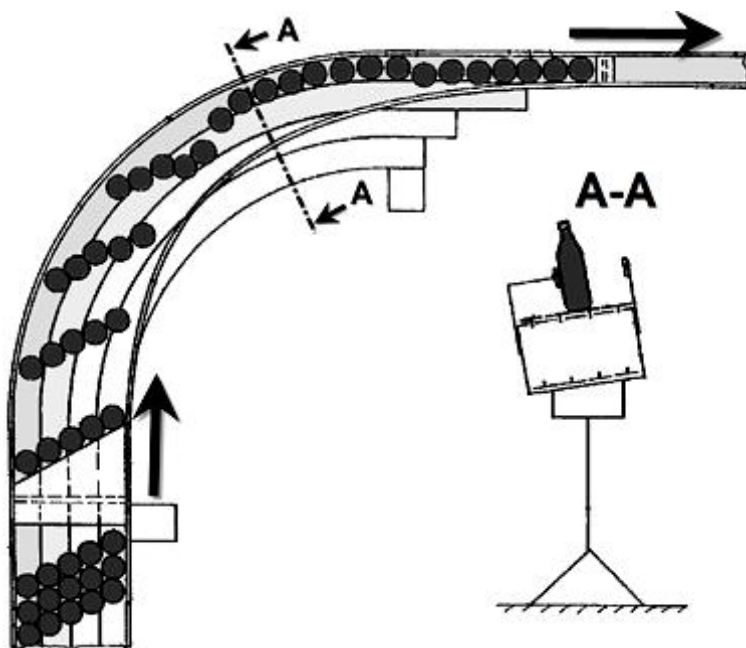
B65G 47/683

{with tilting of at least part of the conveyor to make use of gravity}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

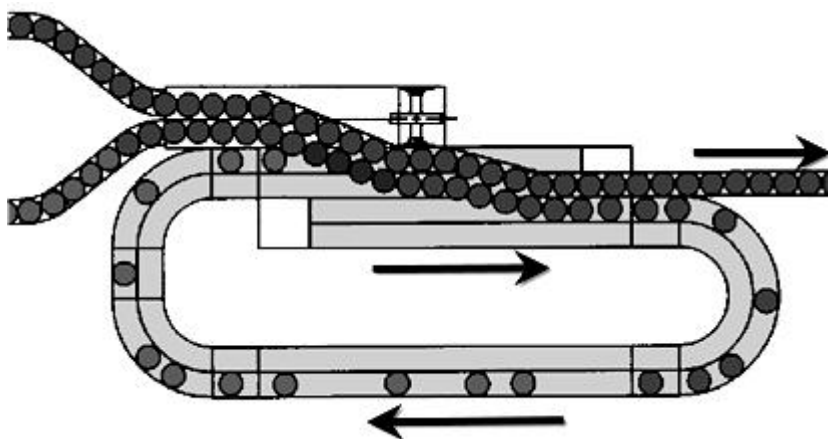
**References****Limiting references**

This place does not cover:

Inclined conveyor in general	B65G 47/68
------------------------------	----------------------------

B65G 47/684**{with recirculation of articles forming a buffer}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

First In - First Out systems: FIFO	B65G 47/5109
------------------------------------	------------------------------

B65G 47/69**the articles being accumulated temporarily {(accumulating articles during transit [B65G 47/261](#))}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

According to unprogrammed signals, e.g. influenced by supply situation at destination for articles	B65G 47/5104 - B65G 47/519
With precedence controls among incoming article flows	B65G 47/70

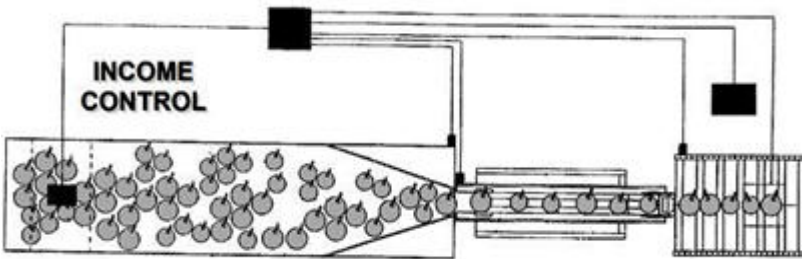
B65G 47/70

with precedence controls among incoming article flows

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of free space to transfer	B65G 47/52
From distinct, separate conveyor lanes	B65G 47/681

B65G 47/71

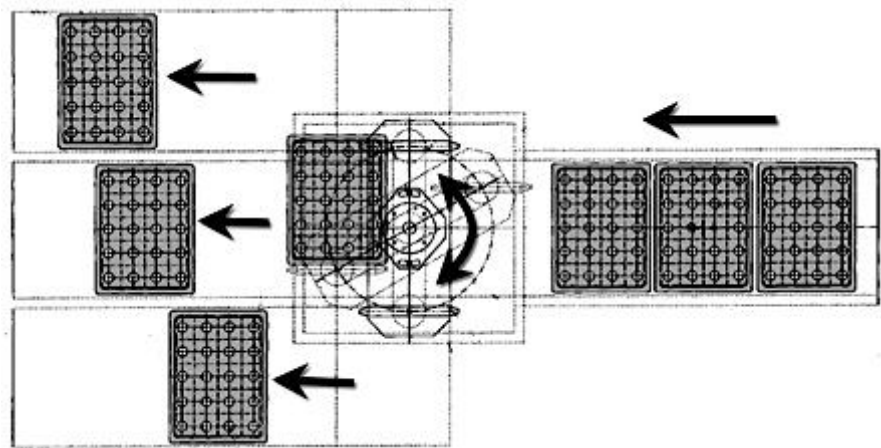
the articles being discharged {or distributed} to several {distinct separate} conveyors {or to a broader conveyor lane}

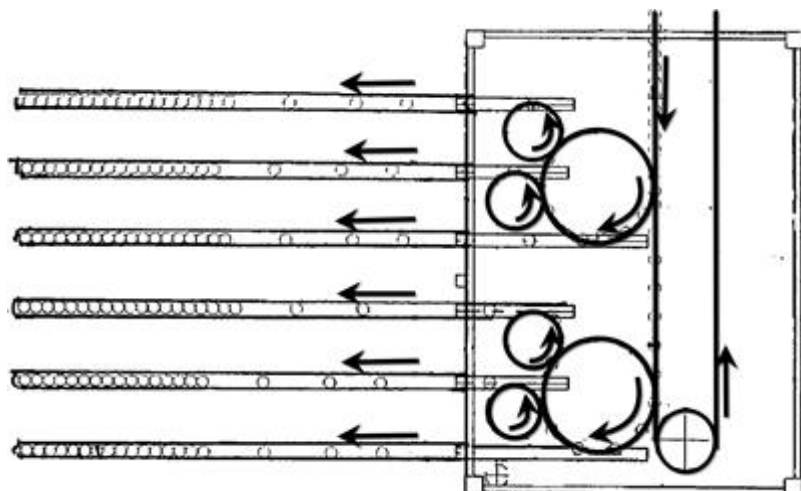
Definition statement

This place covers:

Only separated conveyor lanes

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Switches	B65G 47/64
Pusher shoes	B65G 47/844

Special rules of classification

Not separated conveyor lanes are classified in [B65G 47/715](#).

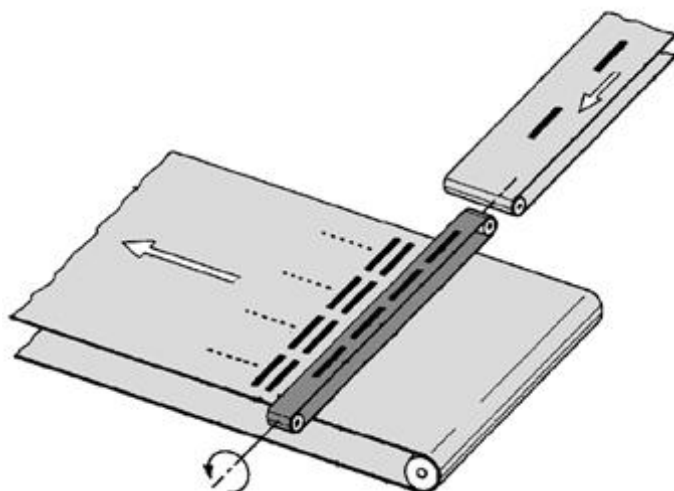
B65G 47/715

{to a broader conveyor lane}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Separated conveyor lanes	B65G 47/71
--------------------------	----------------------------

Special rules of classification

Opposite of [B65G 47/682](#).

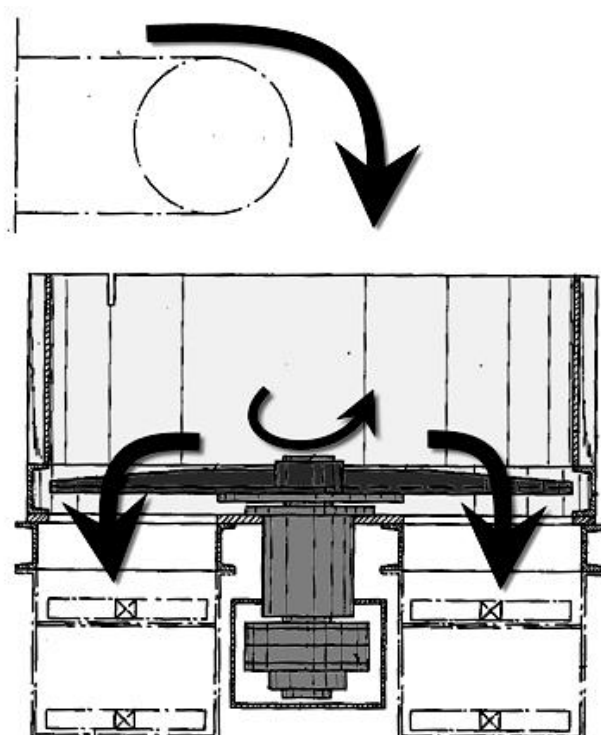
B65G 47/72

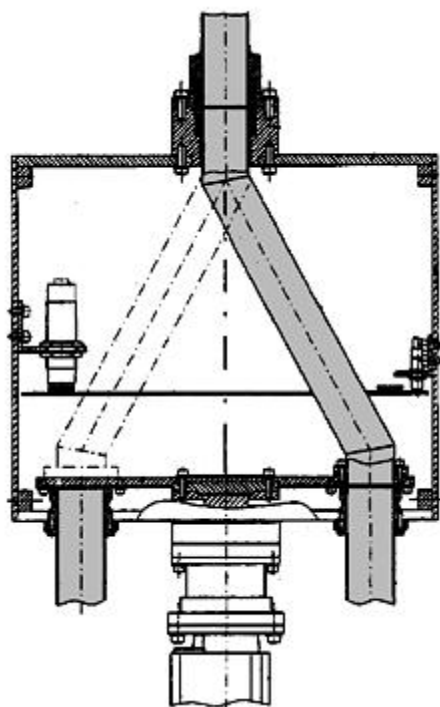
transferring materials in bulk from one conveyor to several conveyors, or vice versa

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

For making a homogeneous pile	B65G 69/10
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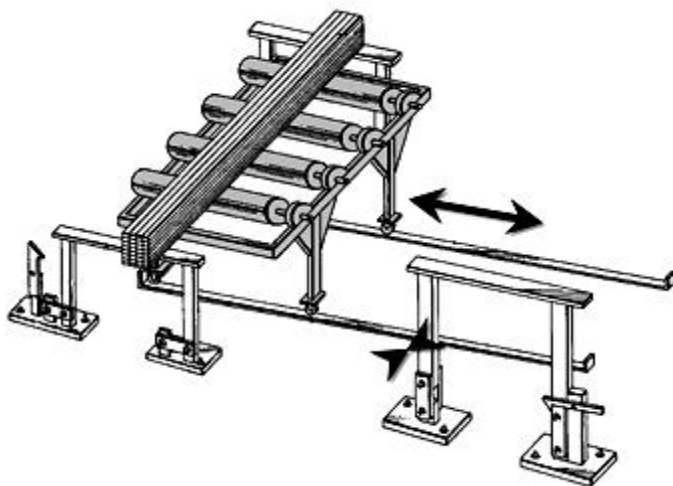
B65G 47/74

Feeding, transfer, or discharging devices of particular kinds or types

Definition statement

This place covers:

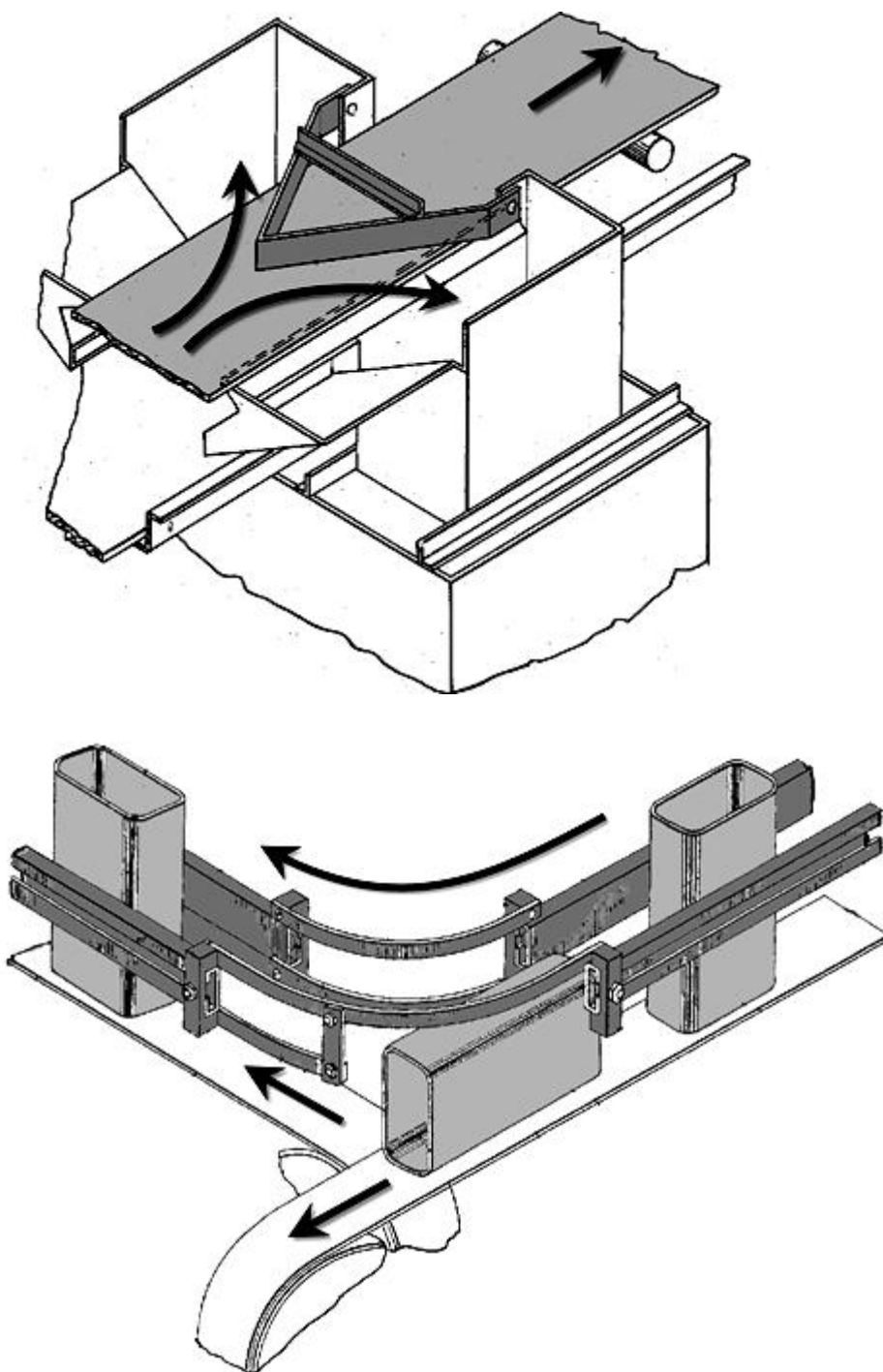
Illustrative example of subject matter classified in this group:



B65G 47/763**{Fixed ploughs or transverse scrapers}****Definition statement***This place covers:*

Only scrapers which are not actuated and which do not comprise any actuated part.

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

NOT Scrapers which are not actuated and which do not comprise any actuated part	B65G 47/766
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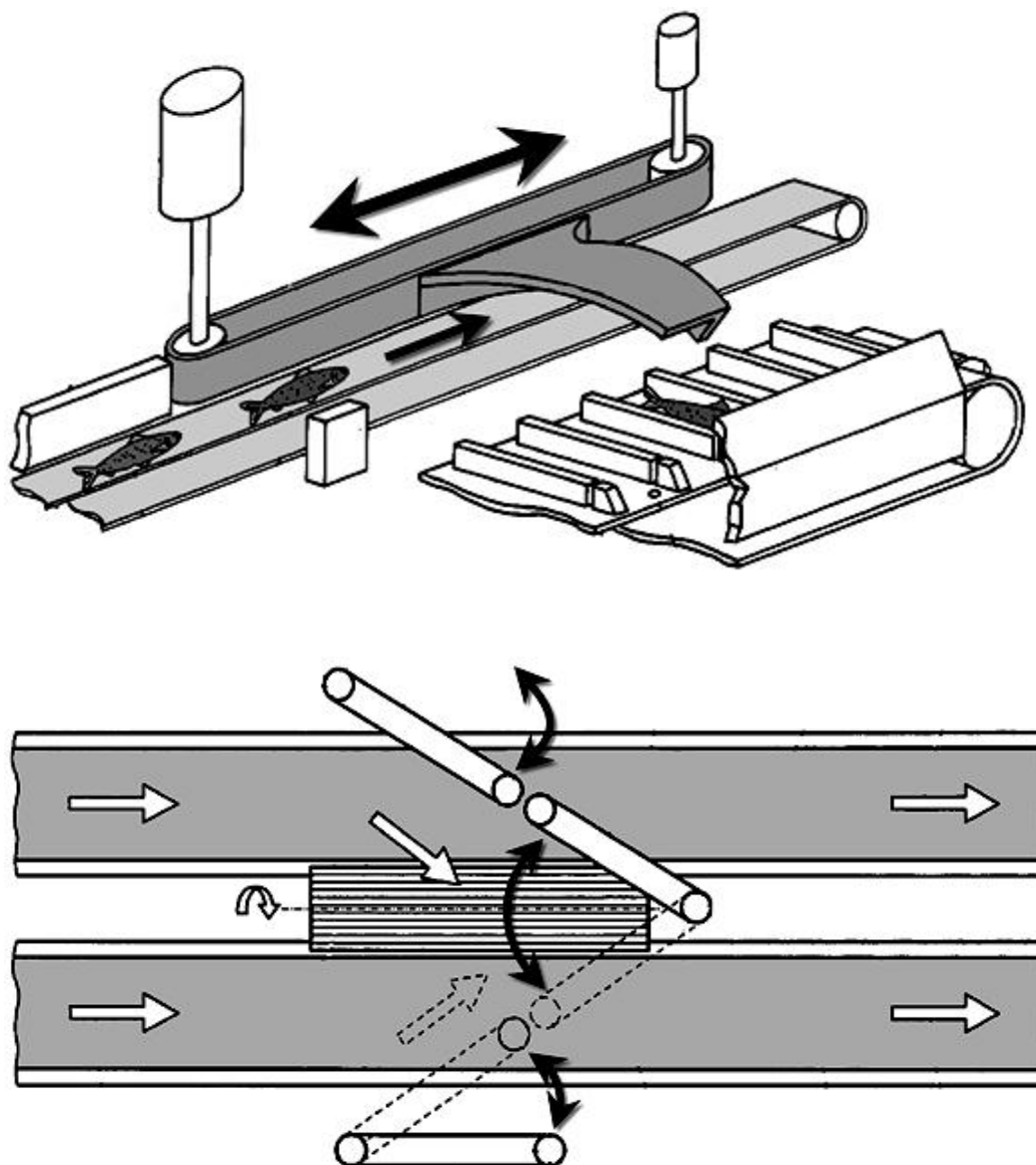
B65G 47/766

{Adjustable ploughs or transverse scrapers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



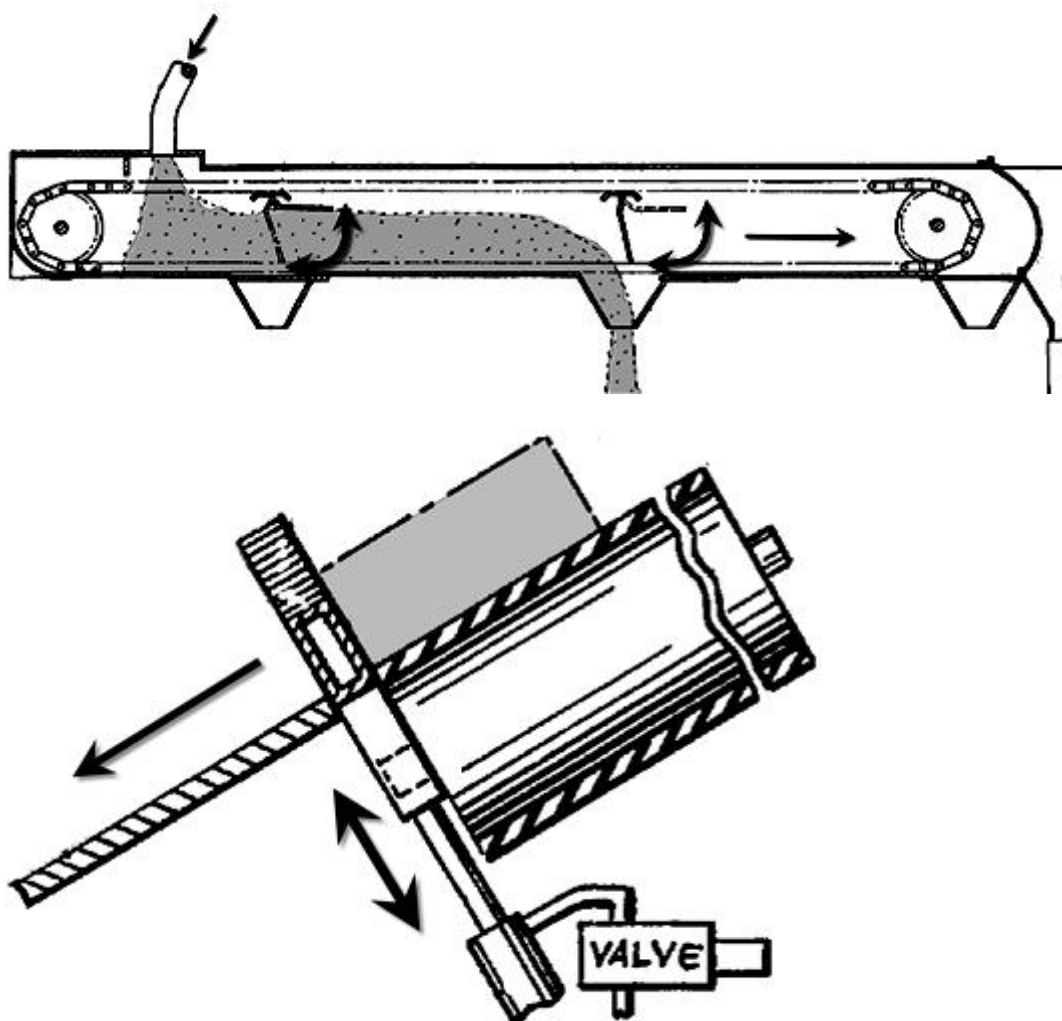
B65G 47/78

Troughs having discharge openings and closures {(in air-slides [B65G 53/20](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

The discharge closure(s) is moving with the conveyor	B65G 47/38
--	----------------------------

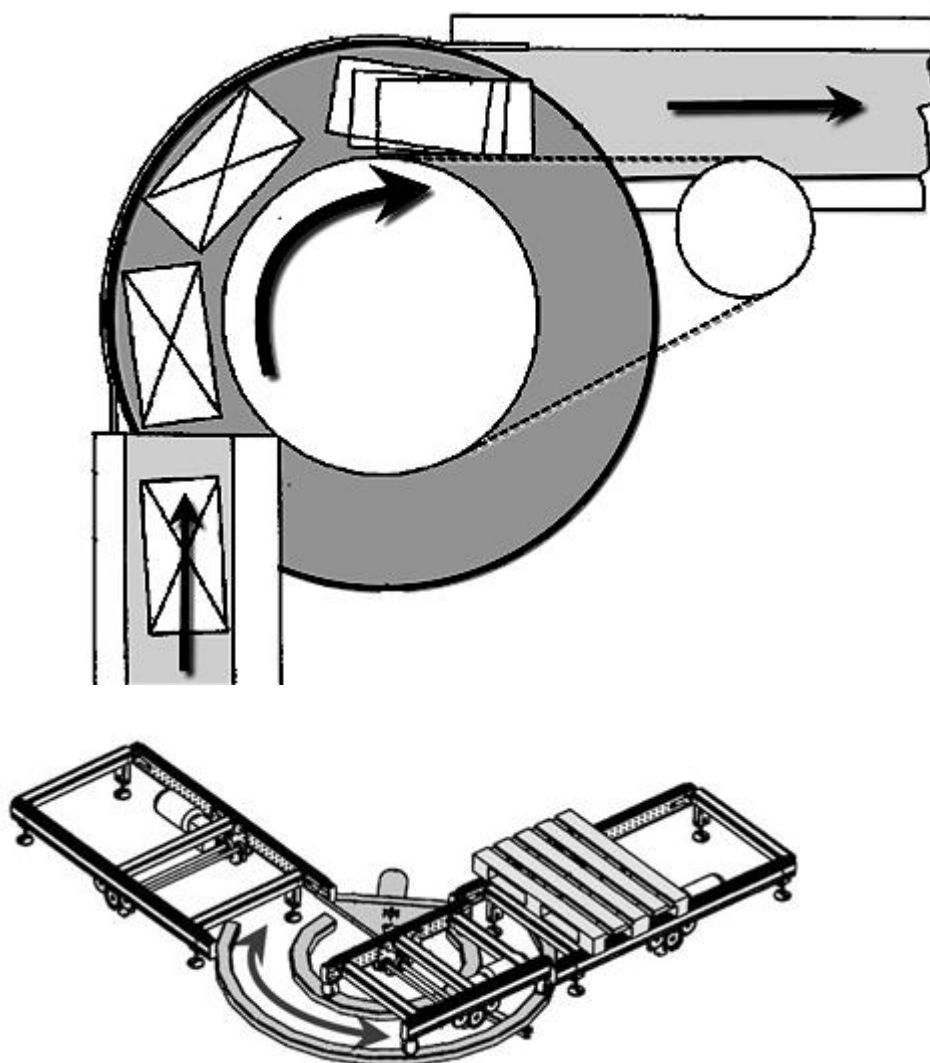
B65G 47/80

Turntables carrying articles or materials to be transferred, e.g. combined with ploughs or scrapers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Construction of the turntable	B65G 29/00
Rotating movement in the plane of the rotating part	B65G 47/1457

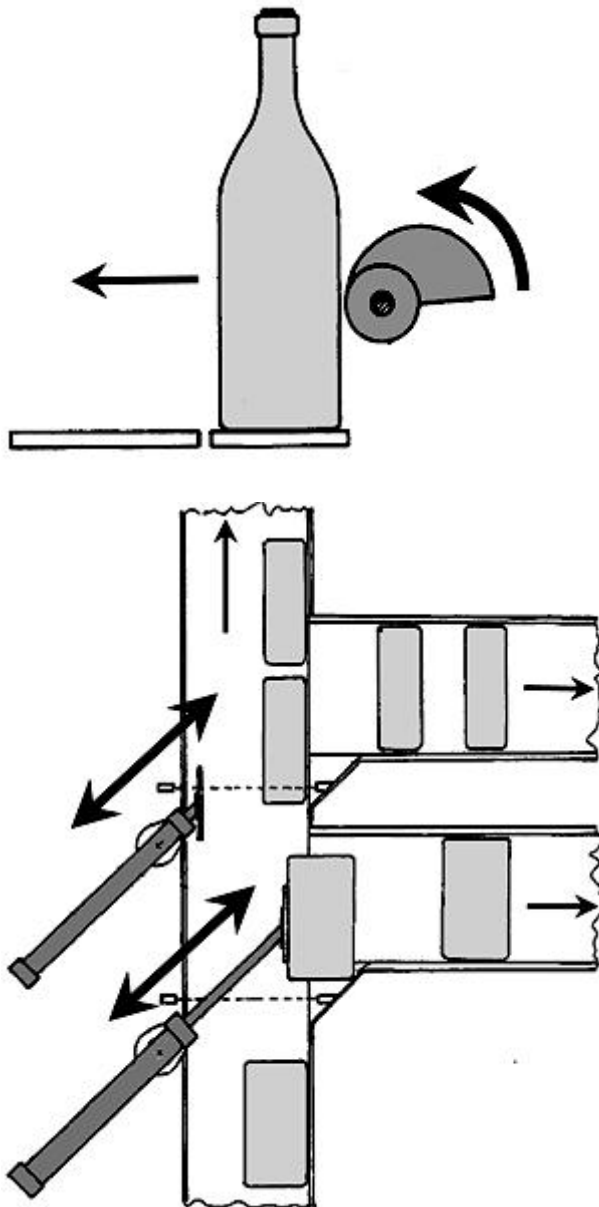
B65G 47/82

Rotary or reciprocating members for direct action on articles or materials, e.g. pushers, rakes, shovels {(means for pushing glass articles onto a conveyor [C03B 9/453](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



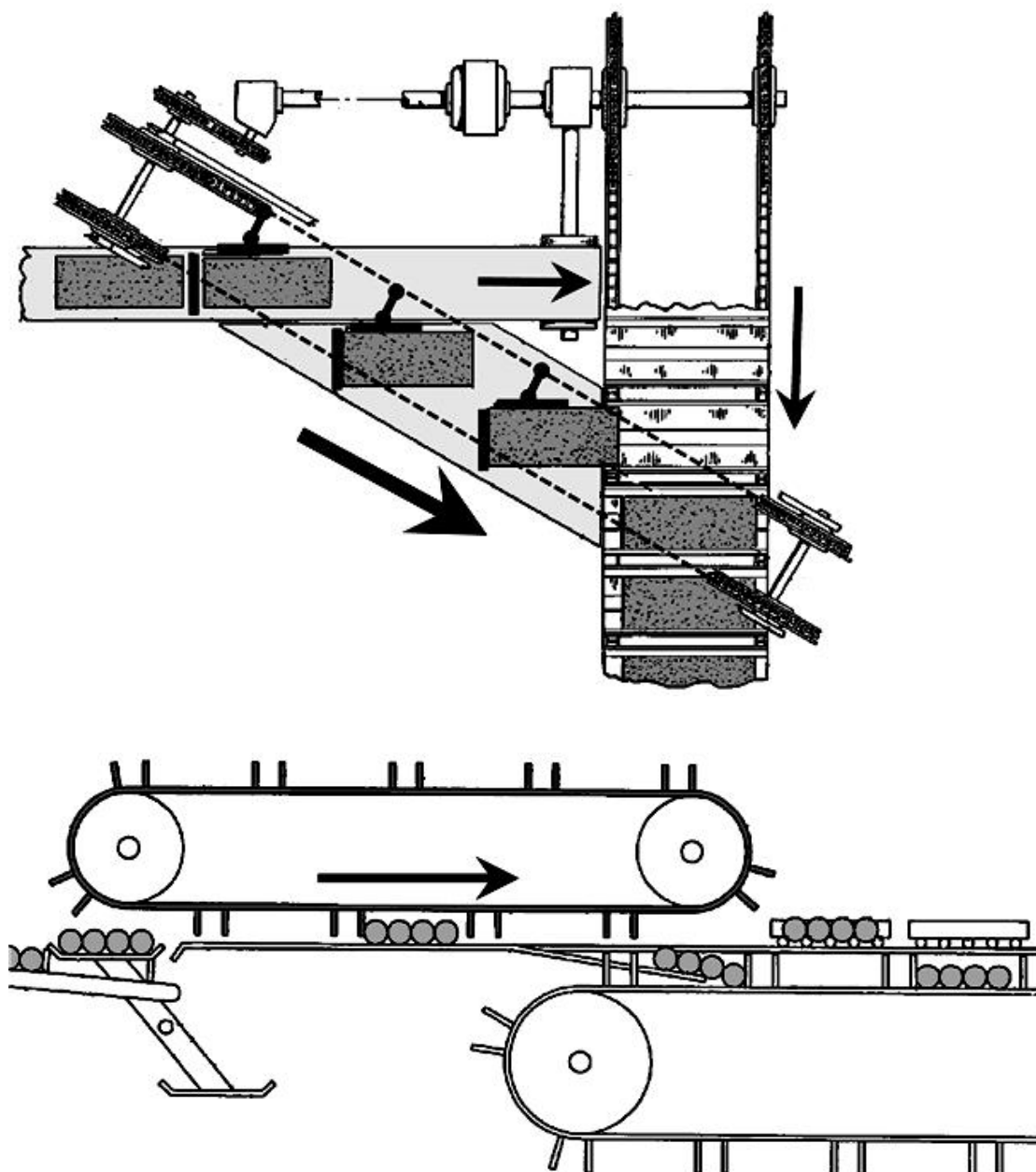
B65G 47/841

{Devices having endless travelling belts or chains equipped with article-engaging elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Separating or stopping elements	B65G 47/88
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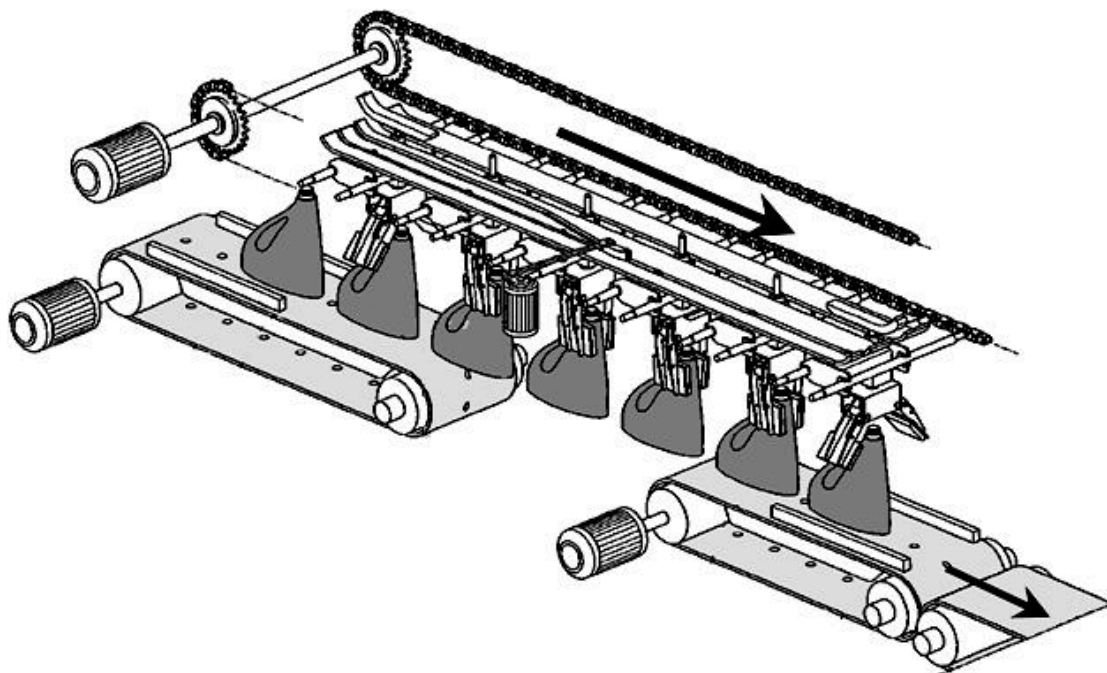
B65G 47/842

{the article-engaging elements being grippers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



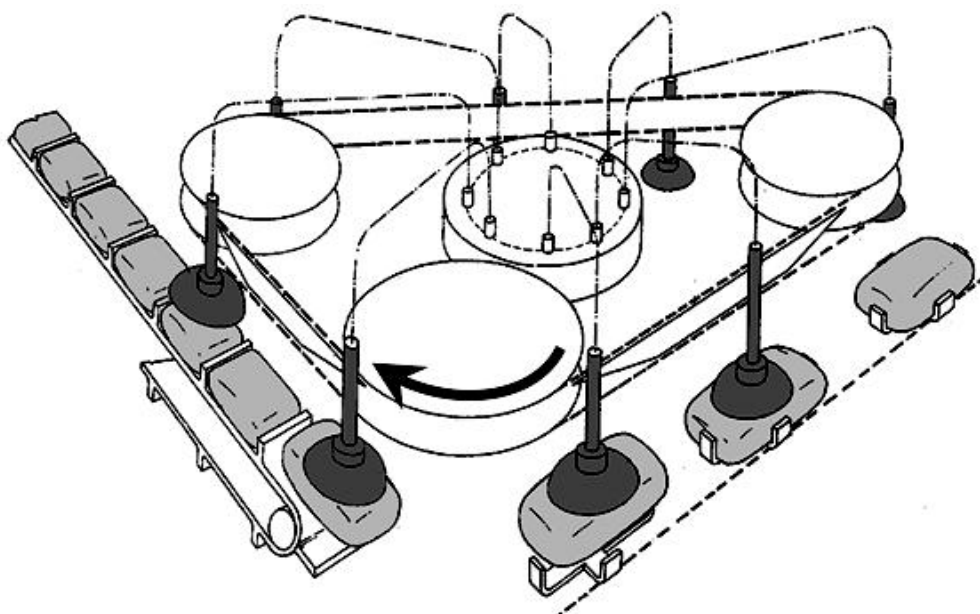
B65G 47/843

{the article-engaging elements being suction or magnetic means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

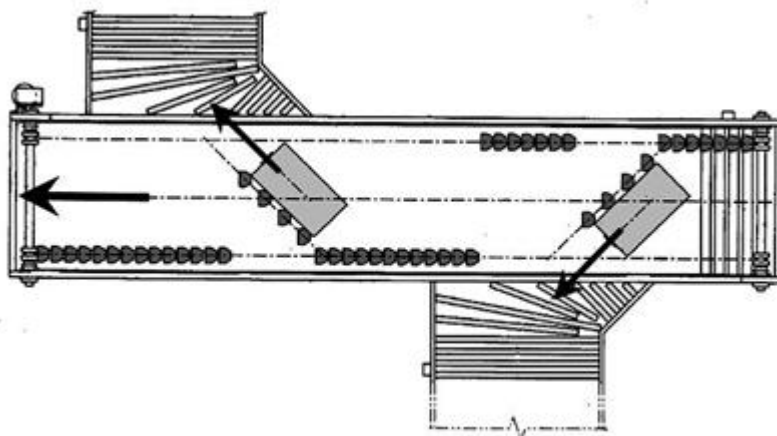
**B65G 47/844**

{the article-engaging elements being pushers transversally movable on the supporting surface, e.g. pusher-shoes}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

The load-carrier is transversally movable	B65G 17/005
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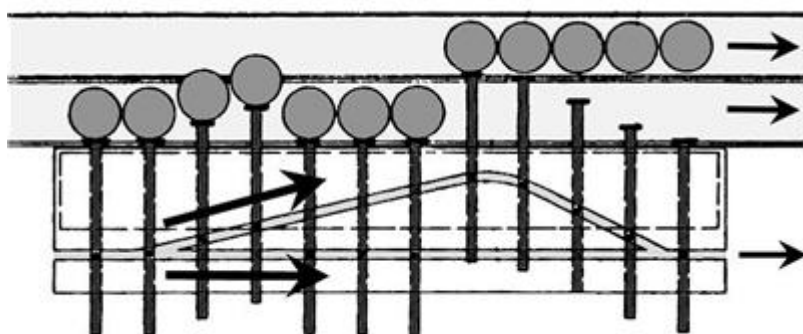
B65G 47/845

{the article engaging elements being pushers moving in parallel and independently from the supporting conveyor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



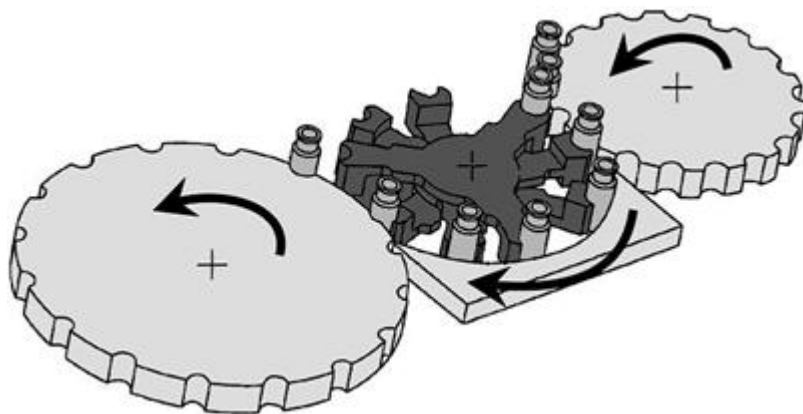
B65G 47/846

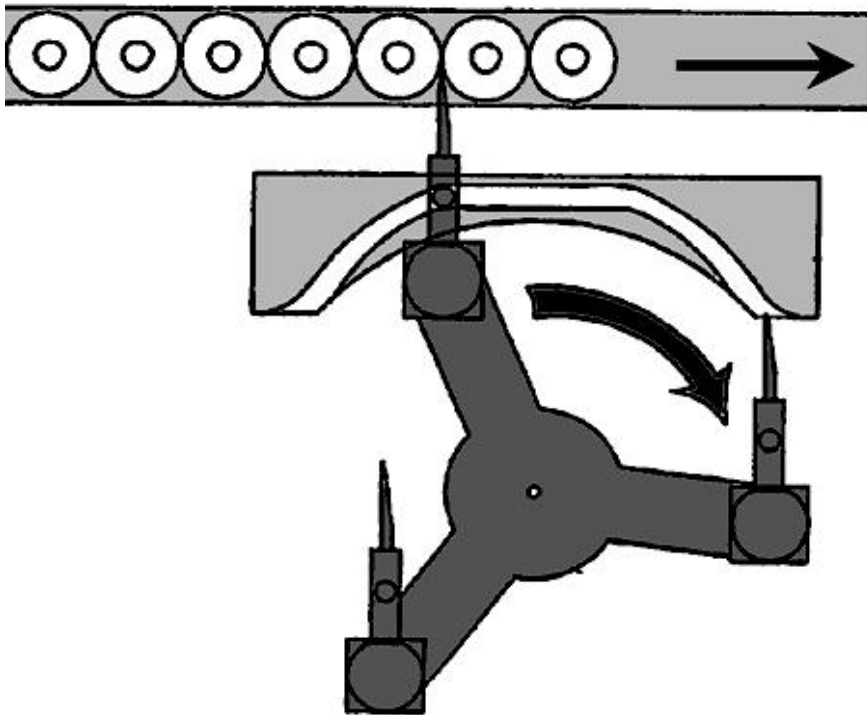
{Star-shaped wheels or wheels equipped with article-engaging elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rotary conveyors	B65G 29/00
Separating or stopping elements	B65G 47/88
Bottles	B67C 7/004

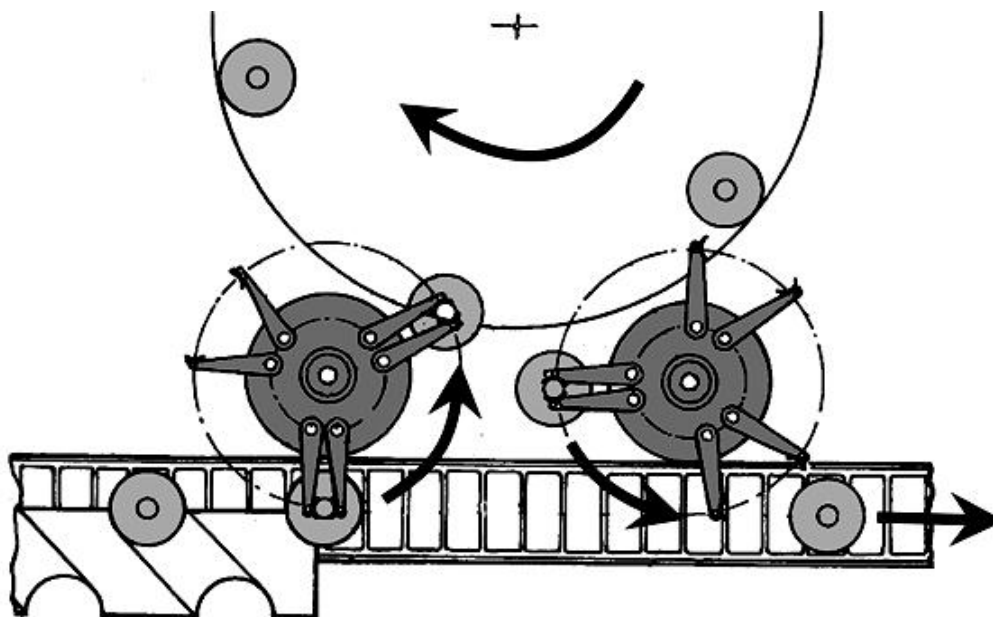
B65G 47/847

{the article-engaging elements being grippers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Bottles	B67C 7/004
Star-shaped wheels (FICLA)	B65G47/86&A
Revolving on horizontal plane (FICLA)	B65G47/86&B
Revolving on a vertical plane (FICLA)	B65G47/86&C

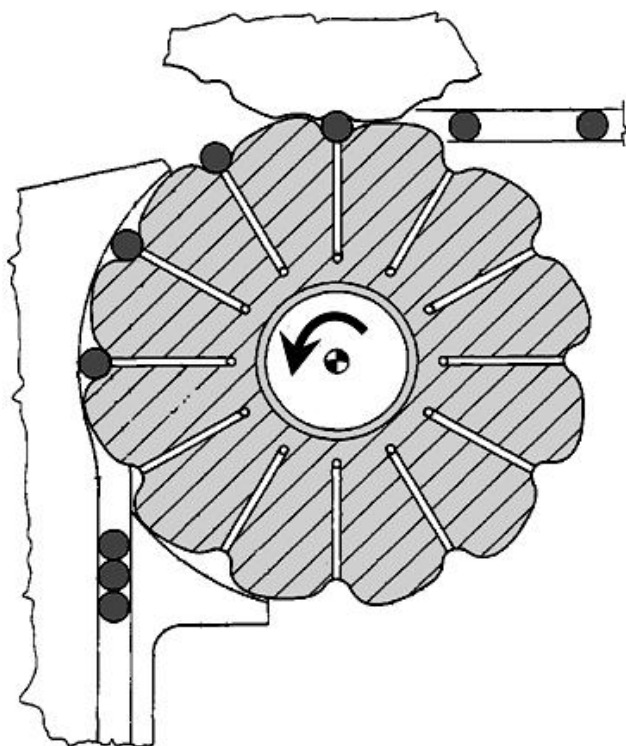
B65G 47/848

{the article-engaging elements being suction or magnetic means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Suction type grippers (FICLA)	B65G47/86&G
Suction type grippers (FICLA)	B65G47/86&H

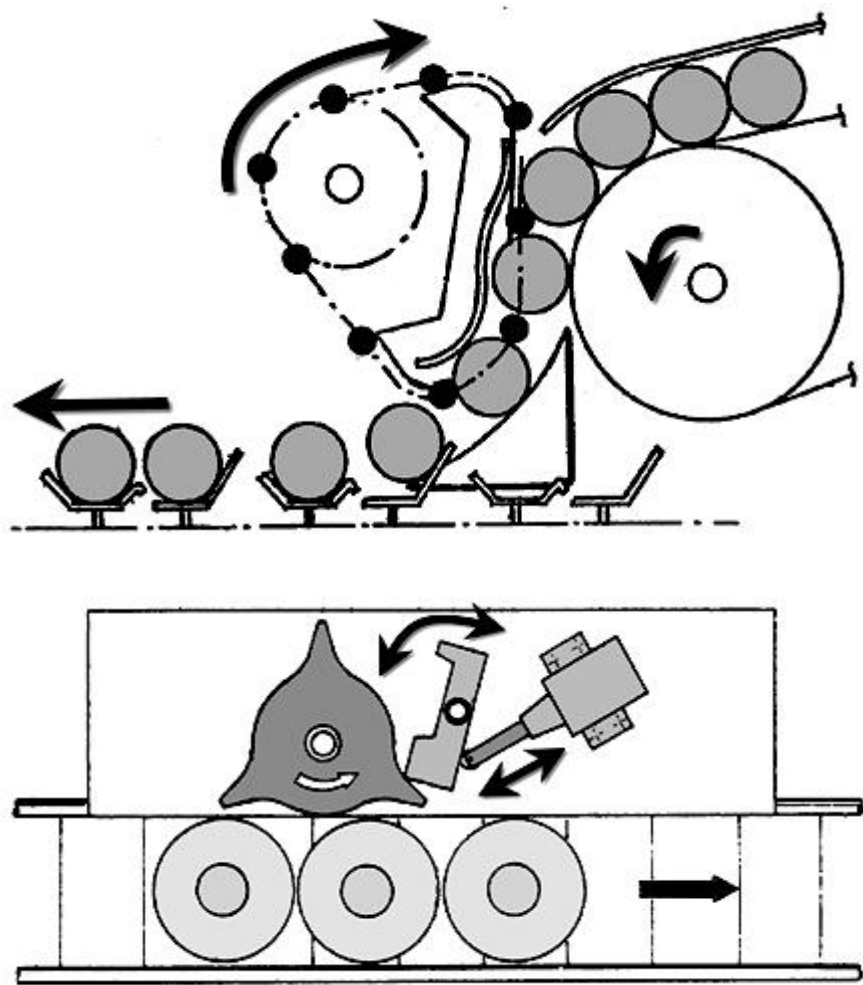
B65G 47/88

Separating or stopping elements, e.g. fingers (attached to star-shaped wheels [B65G 47/84](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

By temporarily stopping movement	B65G 47/29
Postal sorting; sorting individual articles, or bulk material fit to be sorted piece-meal	B07C

Special rules of classification

Indexing Codes:

- [B65G 2205/00](#) Stops used in conveyors to stop articles or arrays of articles

- [B65G 2205/02](#) where the stop is adaptable to the size of the article or array
- [B65G 2205/04](#) where the stop is not adaptable
- [B65G 2205/06](#) cushioned or damping stops, e.g. using springs

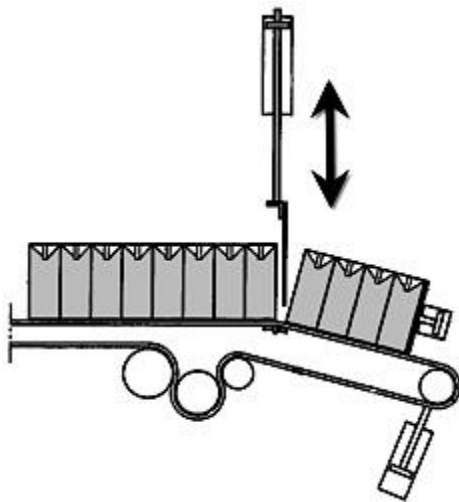
B65G 47/8815

{Reciprocating stop, moving up or down in the path of the article}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



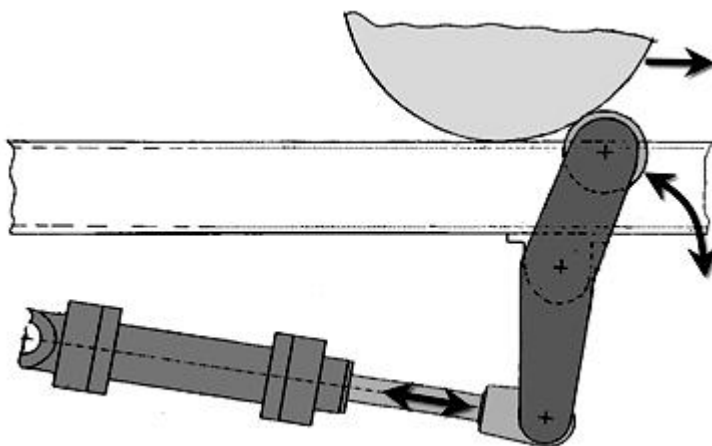
B65G 47/8823

{Pivoting stop, swinging in or out of the path of the article}

Definition statement

This place covers:

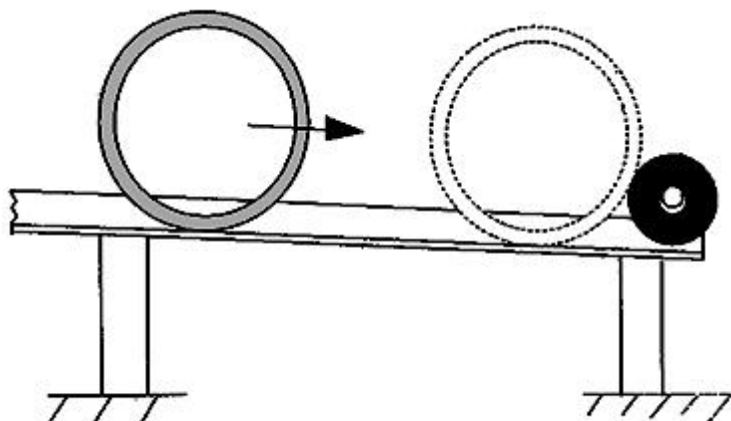
Illustrative example of subject matter classified in this group:



B65G 47/883**{Fixed stop}****Definition statement***This place covers:*

Only not-moving stop

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Moving stop	B65G 47/88
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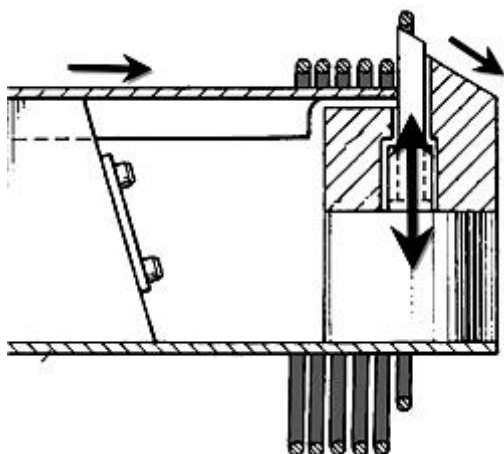
B65G 47/8838

{with a linearly movable pusher element which lifts or releases the article}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

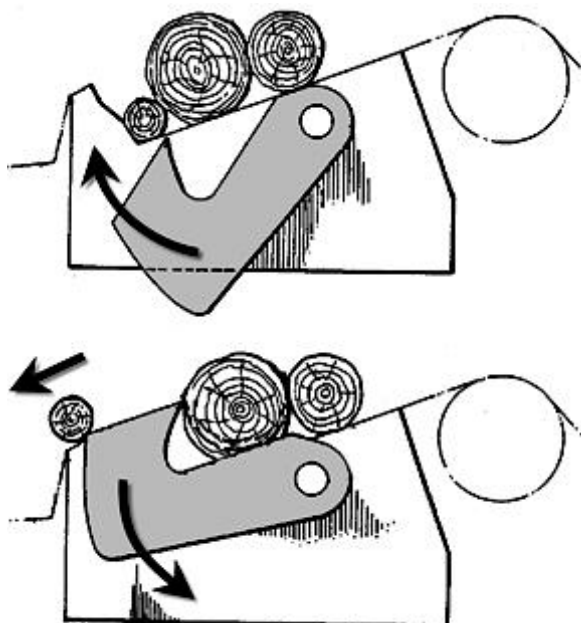
**B65G 47/8846**

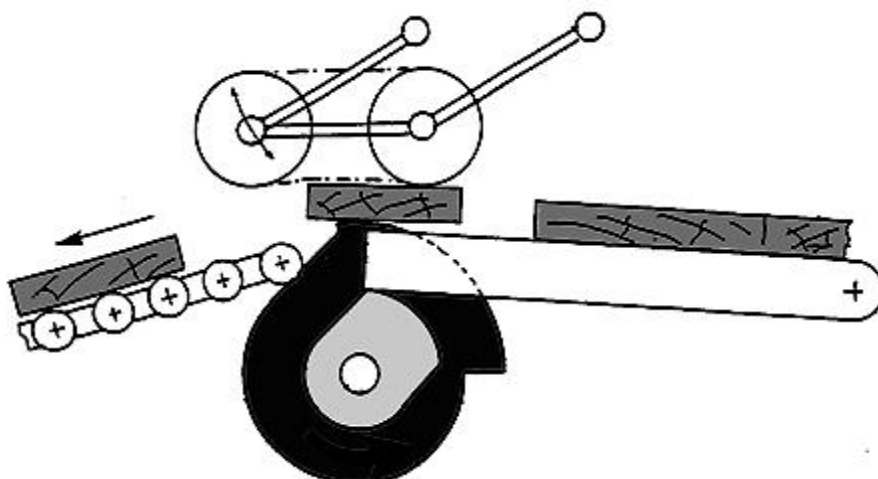
{with a pivoting pusher element which lifts or releases the article}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Pivoting conveyors	B65G 47/8853
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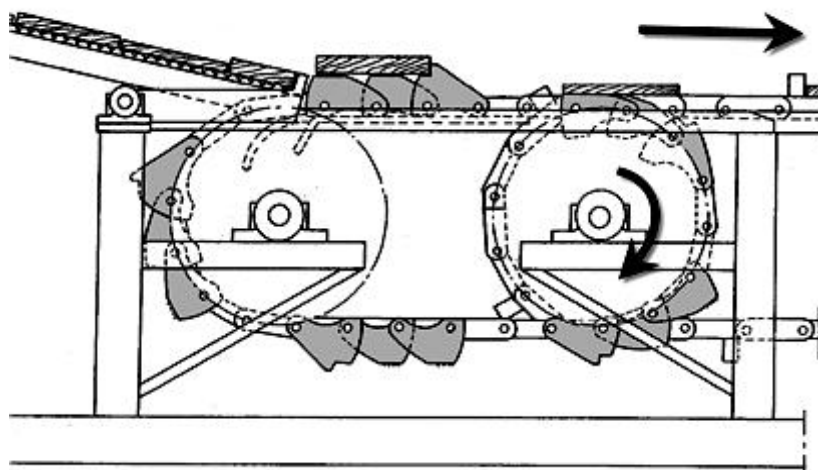
B65G 47/8853

{with conveyors, e.g. pivoting or rotating, to transfer the article}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Starwheels	B65G 47/88
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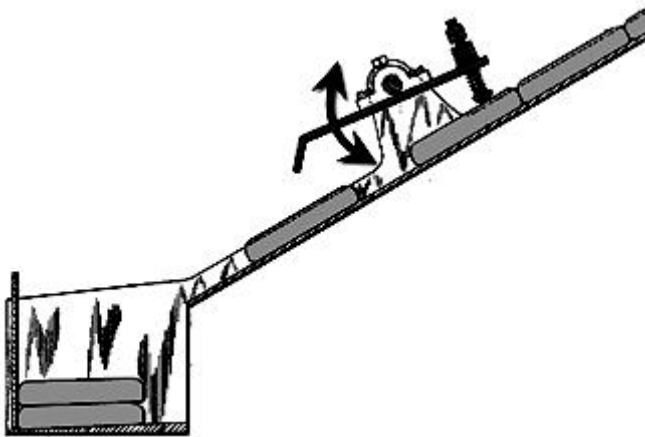
B65G 47/8861

{Stop in the form of a clamp on one or both sides of the article}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

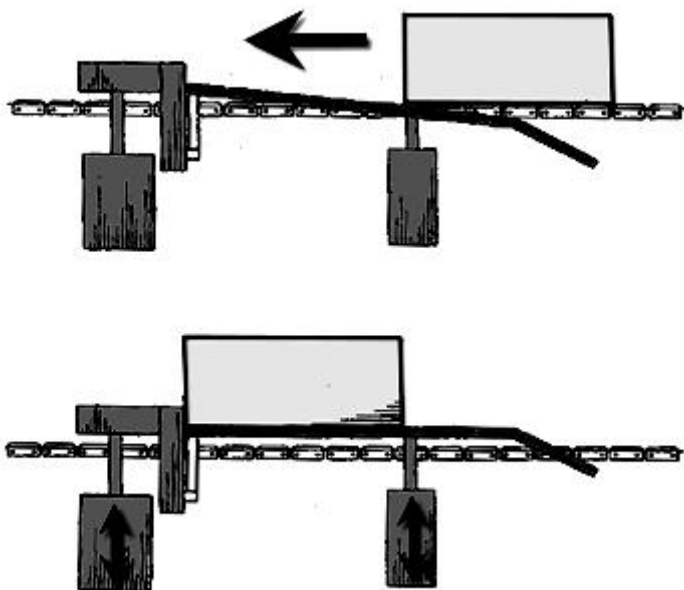
**B65G 47/8869**

{stopping or lifting all articles from a conveyor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 47/8876

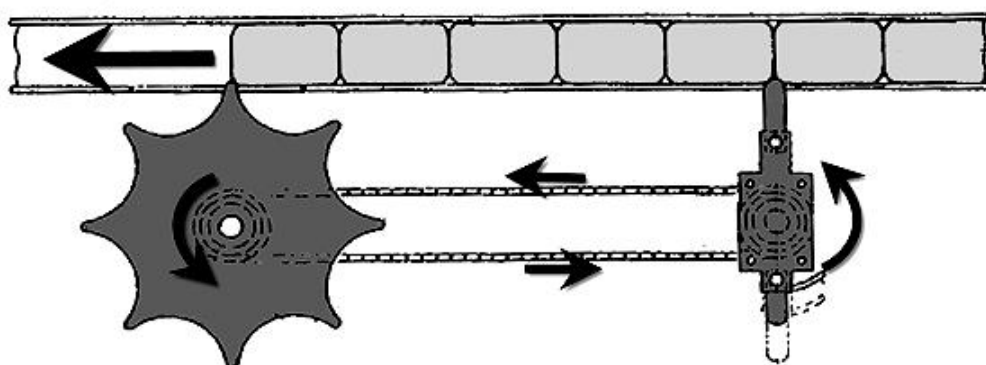
{with at least two stops acting as gates}

Definition statement

This place covers:

Synchronously acting stops

Illustrative example of subject matter classified in this group:

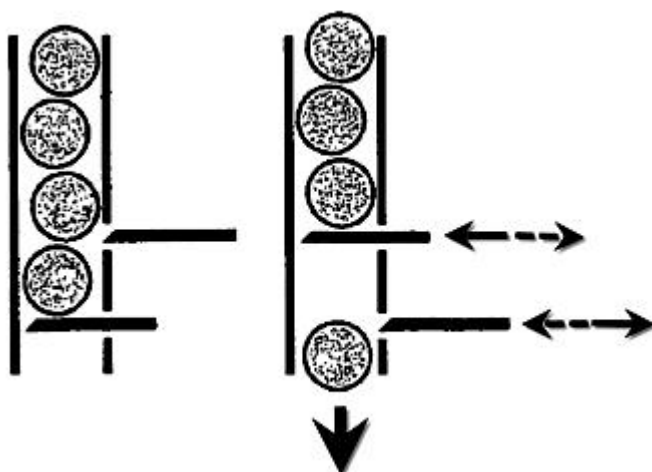
**B65G 47/8884**

{Stops acting asynchronously, e.g. one stop open, next one closed or the opposite}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

The articles being fed by gravity	B65G 1/08
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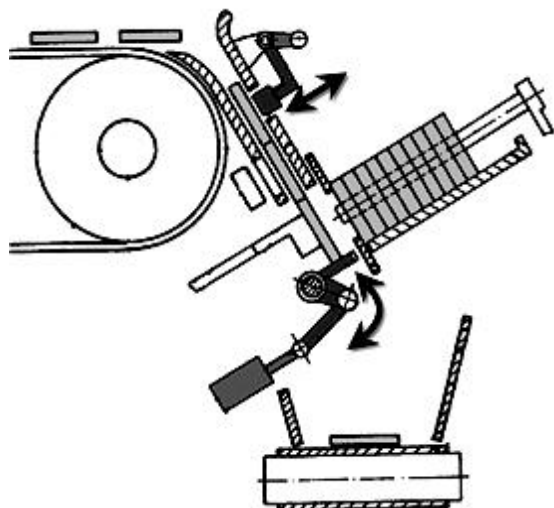
B65G 47/8892

{Stops acting independently of each other}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



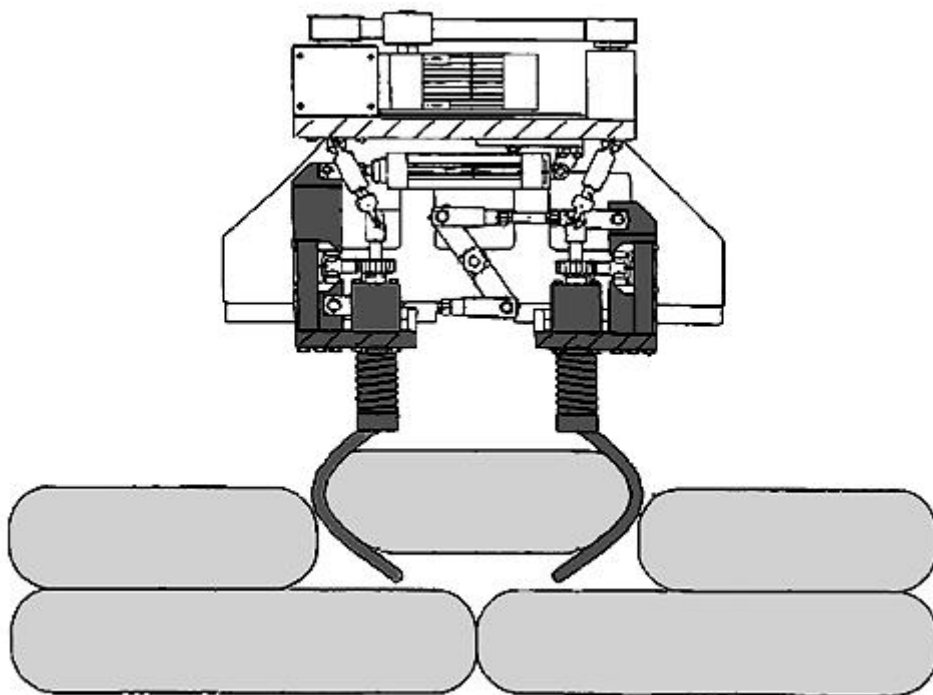
B65G 47/90

Devices for picking-up and depositing articles or materials

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for handling work specially combined with or arranged in, or specially adapted for use in connection with, machine tools	B23Q 7/00
Gripping means	B25J 15/00

Special rules of classification

Devices using a combination of pneumatic, e.g. suction, grippers and non-pneumatic, e.g. mechanical, grippers for picking-up and depositing articles or materials should be classified in both [B65G 47/90](#) and [B65G 47/91](#).

B65G 47/901

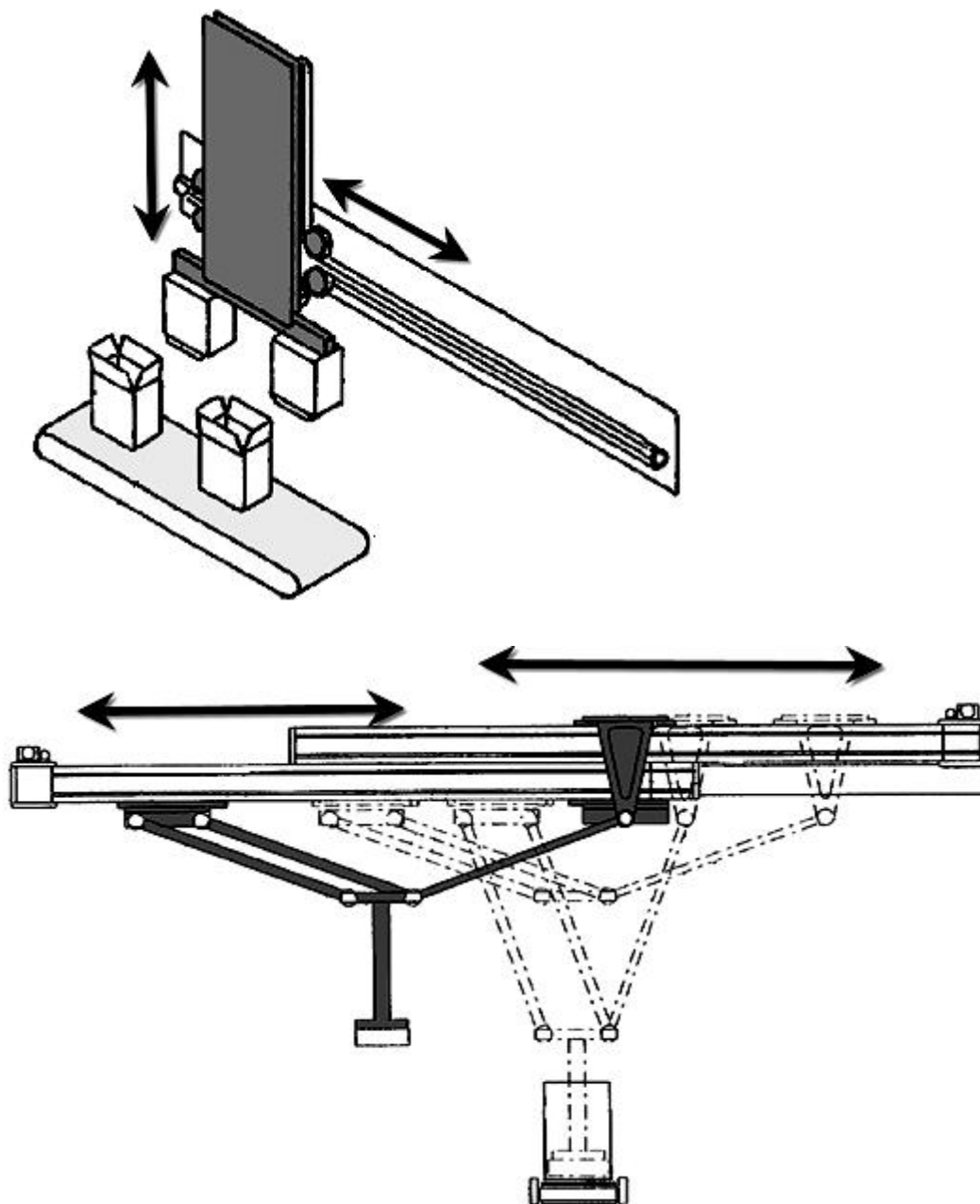
{provided with drive systems with rectilinear movements only}

Definition statement

This place covers:

Drive system for the whole gripper (not for the gripping "fingers")

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Incorporating pneumatic, e.g. suction, grippers	B65G 47/91
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B65G 47/902

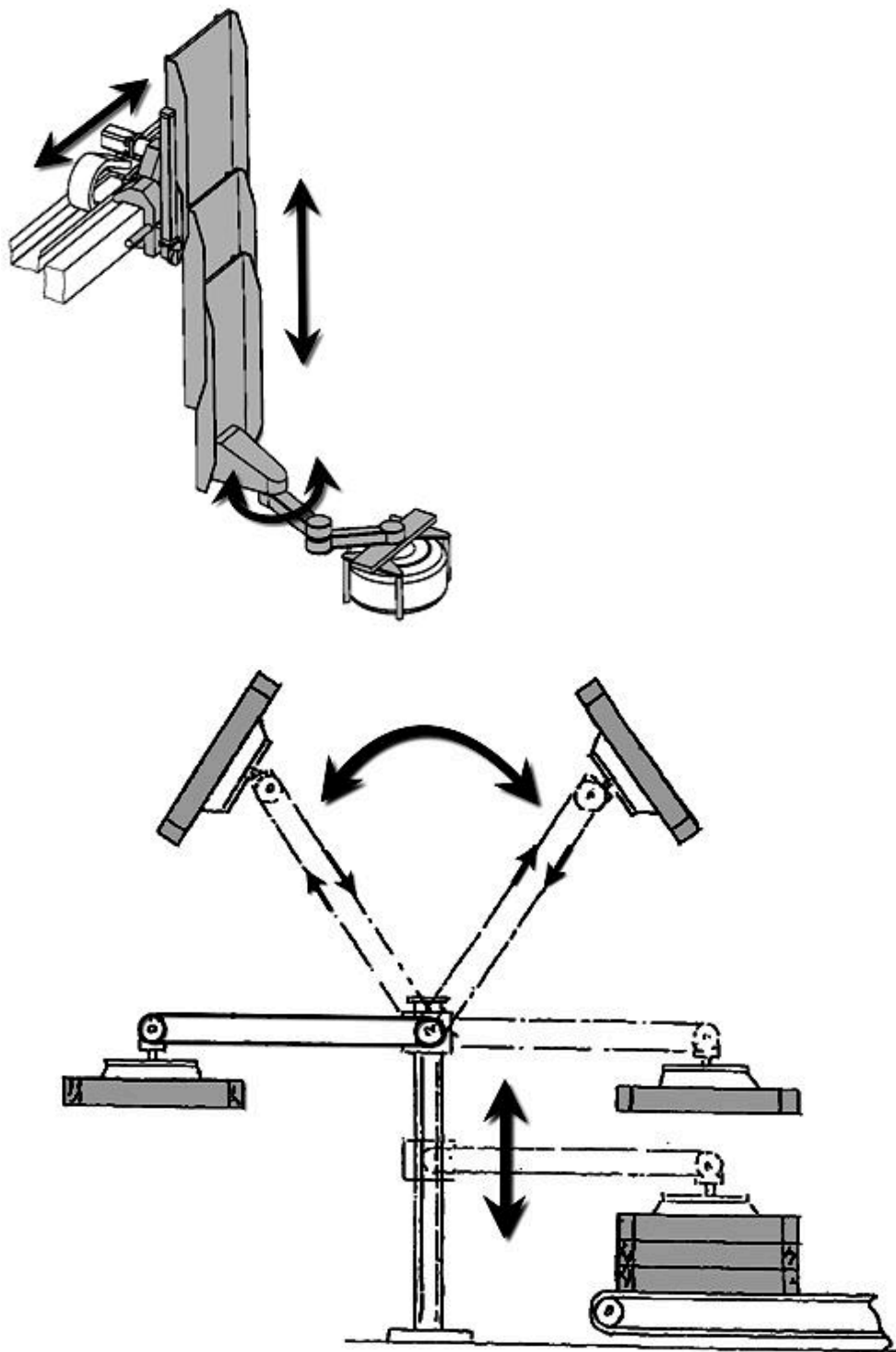
{provided with drive systems incorporating rotary and rectilinear movements}

Definition statement

This place covers:

Drive system for the whole gripper (not for the gripping "fingers")

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Incorporating pneumatic provided with drive systems incorporating rotary and rectilinear movements	B65G 47/914
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B65G 47/904

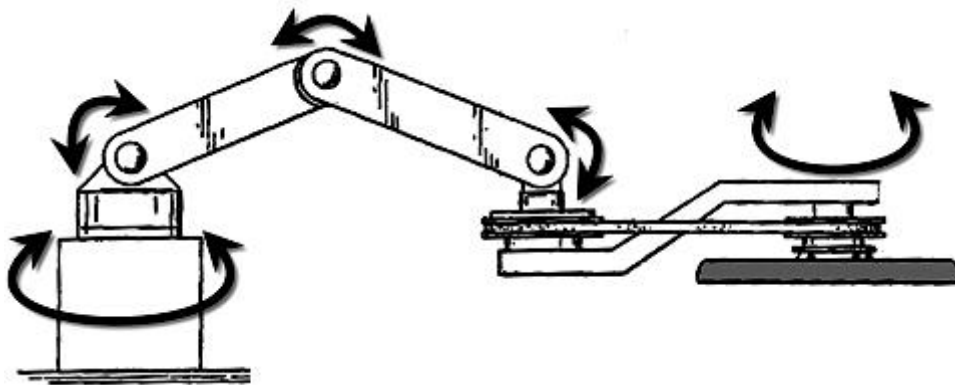
{provided with rotary movements only}

Definition statement

This place covers:

Drive system for the whole gripper (not for the gripping "fingers")

Illustrative example of subject matter classified in this group:



References

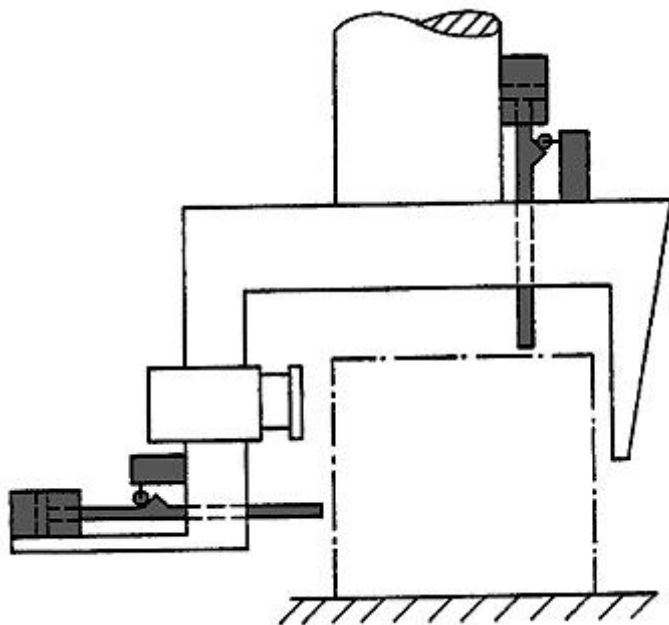
Informative references

Attention is drawn to the following places, which may be of interest for search:

Incorporating pneumatic provided with drive systems with rotary movements only	B65G 47/915
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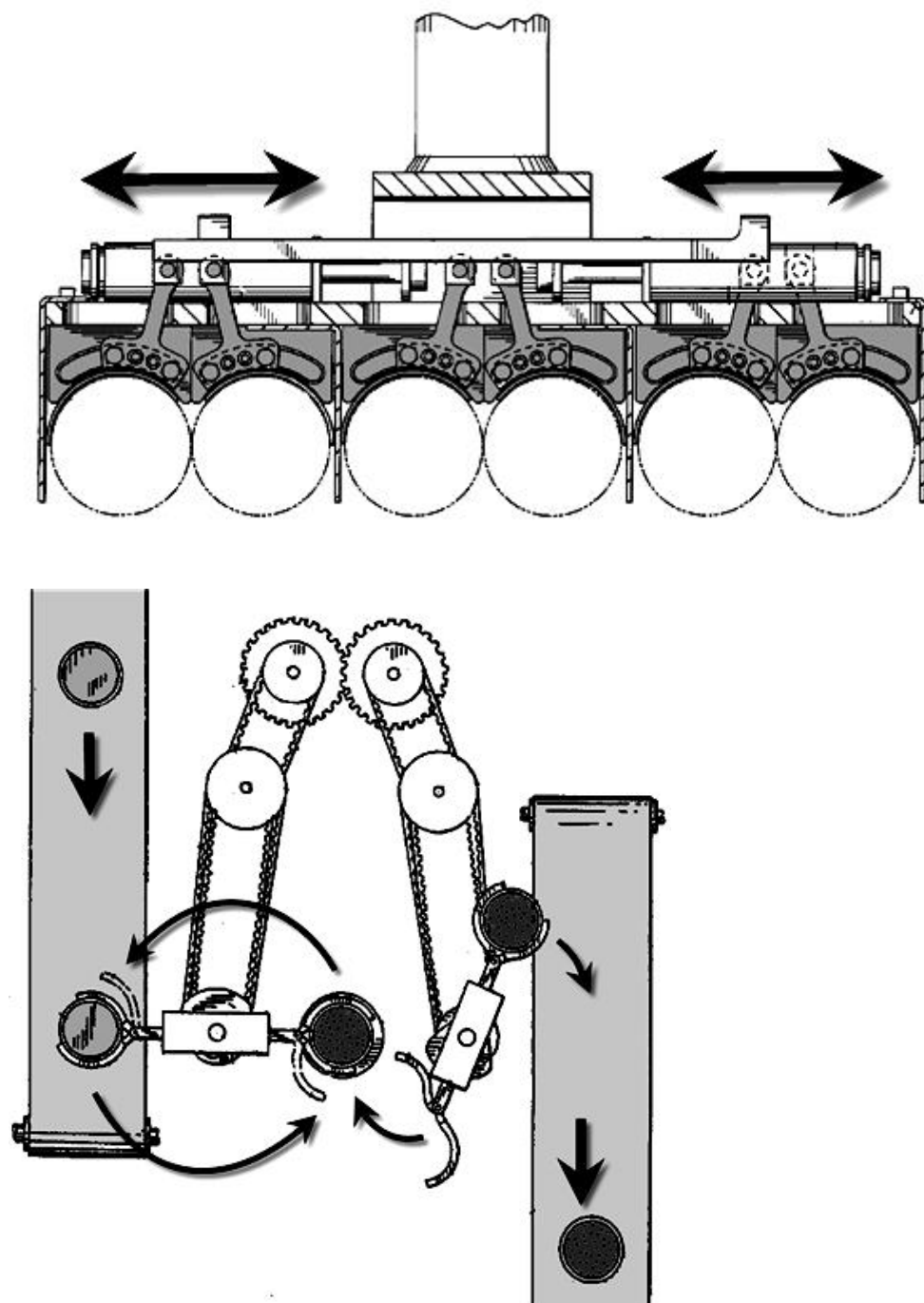
B65G 47/905**{Control arrangements}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 47/907****{with at least two picking-up heads}****Definition statement***This place covers:*

Grippers working together or independently

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Incorporating pneumatic with at least two picking-up heads	B65G 47/918
--	-----------------------------

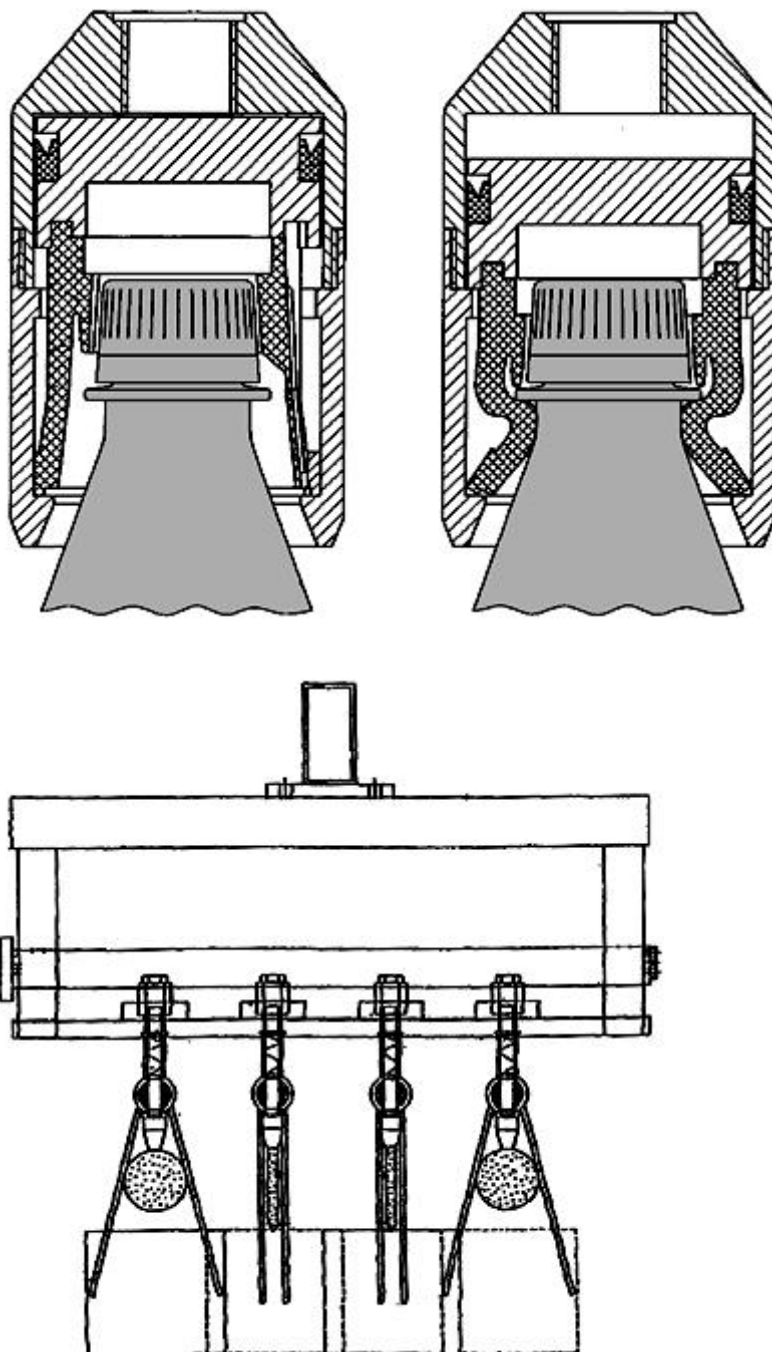
B65G 47/908

{with inflatable picking-up means (inflatable gripping members on load engaging elements for cranes [B66C 1/46](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Inflatable gripping members on load engaging elements for cranes
--

B66C 1/46

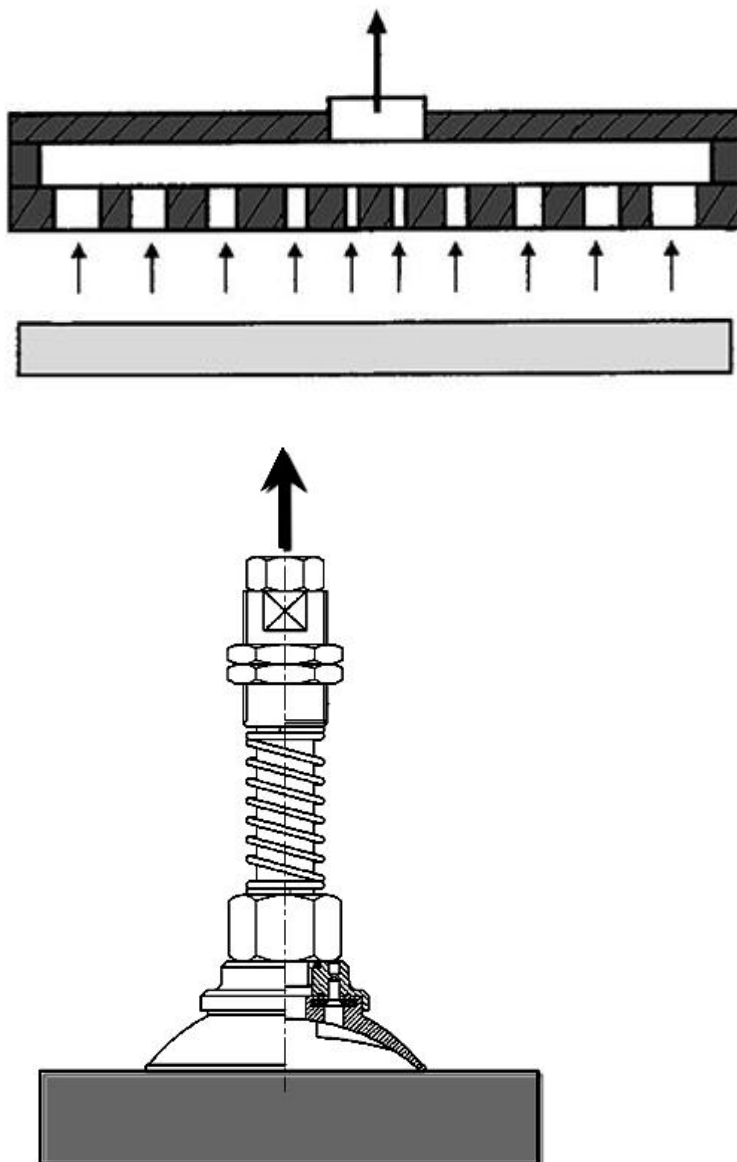
B65G 47/91

incorporating pneumatic, e.g. suction, grippers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Lifting, gripping, or carrying mans, for one or more sheets forming independent means of transport	B65G 49/061
Vacuum work holders	B25B 11/005
Gripping heads with vacuum	B25J 15/0616
Load-engaging elements or devices by suction means	B66C 1/02

Special rules of classification

Devices using a combination of pneumatic, e.g. suction, grippers and non-pneumatic, e.g. mechanical, grippers for picking-up and depositing articles or materials should be classified in both [B65G 47/90](#) and [B65G 47/91](#).

B65G 47/911

{with air blasts producing partial vacuum}

Definition statement

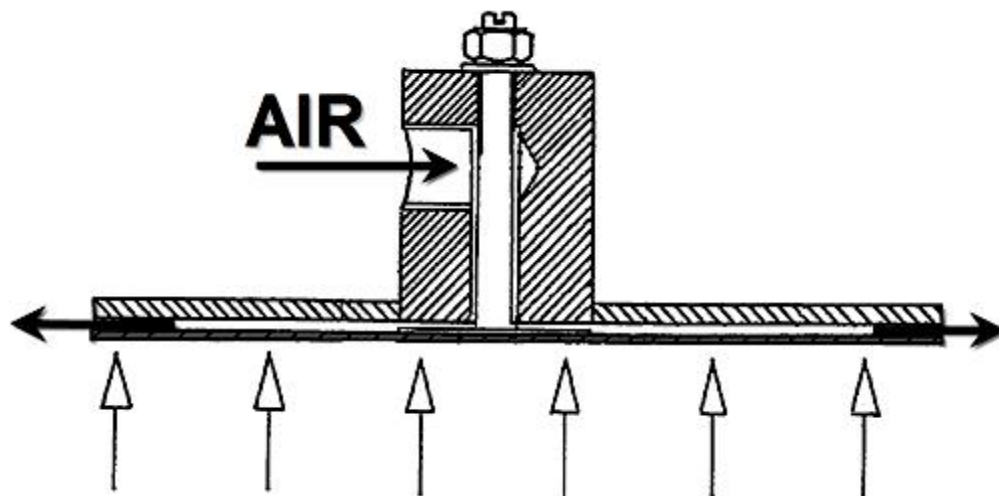
This place covers:

Here for example a Bernoulli effect is achieved nearby the object (air is blown near/towards/directly on the object).

Also "partial vacuum" means that generally there is partial/no contact between the object and the gripper.

This sub-group is NOT to be used if the Bernoulli effect is achieved far away from the object - then [B65G 47/91](#) is to be used.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bernoulli devices	H10P 72/78
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B65G 47/912

{provided with drive systems with rectilinear movements only}

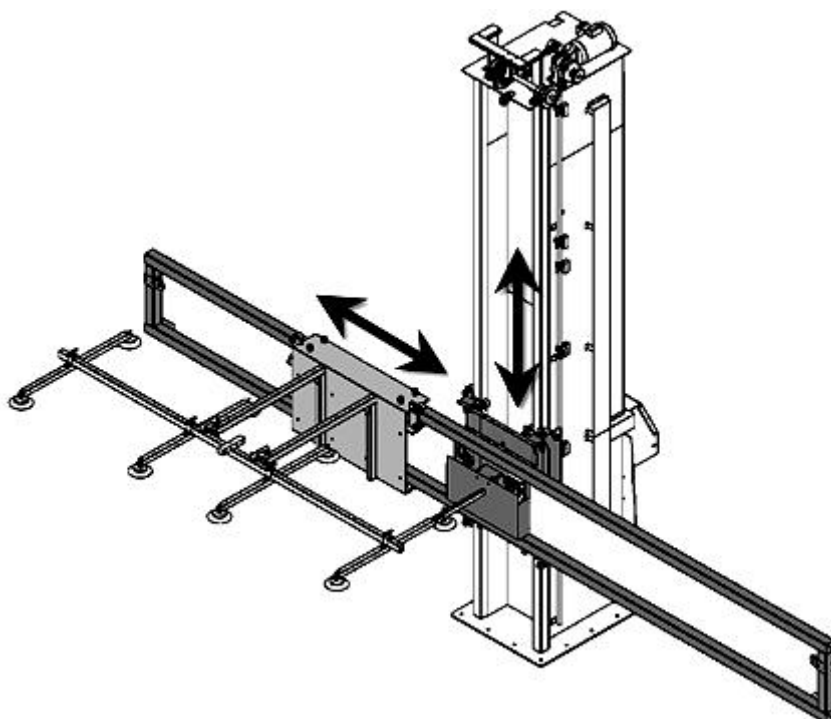
Definition statement

This place covers:

Relates only to how we bring the pick and place device (gripper) to the pick location (target object) and to the place location (final drop destination).

The movements of the arms carrying the gripper, associated columns etc have to be along straight line paths.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for picking-up and depositing articles or materials provided with drive systems with rectilinear movements only	B65G 47/901
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B65G 47/914

{provided with drive systems incorporating rotary and rectilinear movements}

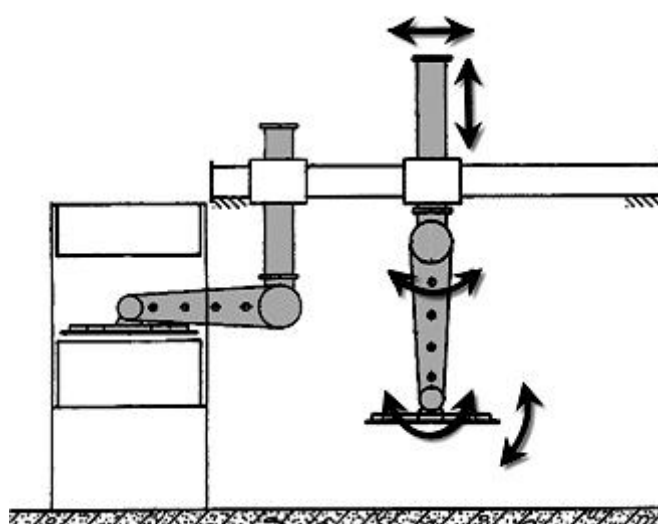
Definition statement

This place covers:

Relates only to how we bring the pick and place device (gripper) to the pick location (target object) and to the place location (final drop destination).

The movements of the arms carrying the gripper, associated columns etc are along rotary and straight line paths.

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Devices for picking-up and depositing articles or materials provided with drive systems incorporating rotary and rectilinear movements only	B65G 47/902
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B65G 47/915

{provided with drive systems with rotary movements only}

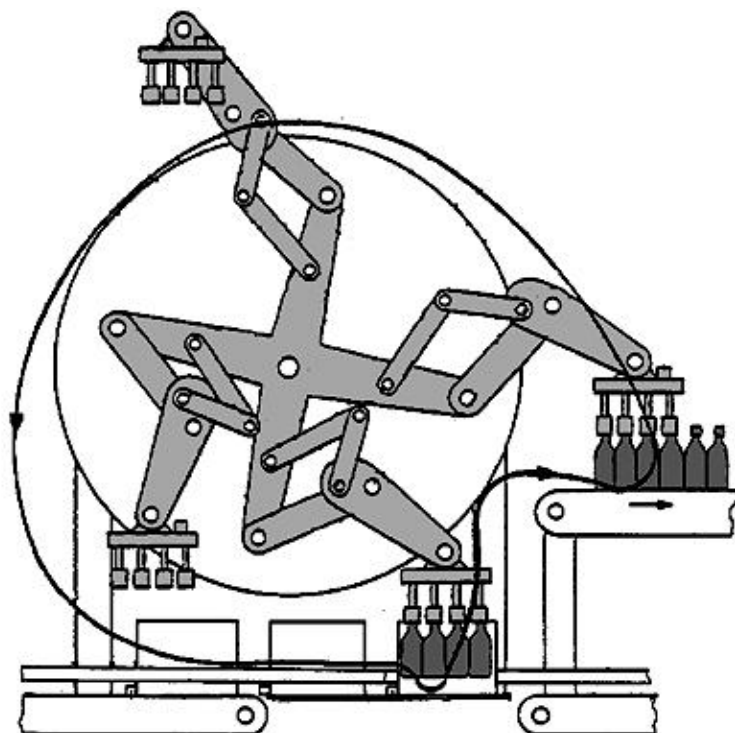
Definition statement

This place covers:

Relates only to how we bring the pick and place device (gripper) to the pick location (target object) and to the place location (final drop destination).

The movements of the arms carrying the gripper, associated columns etc are along only rotary paths.

Illustrative example of subject matter classified in this group:



References

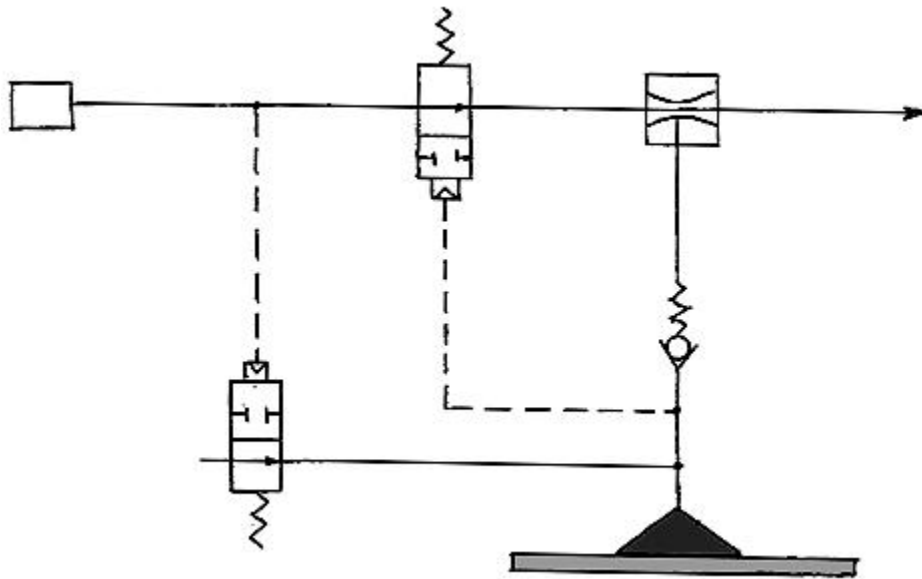
Informative references

Attention is drawn to the following places, which may be of interest for search:

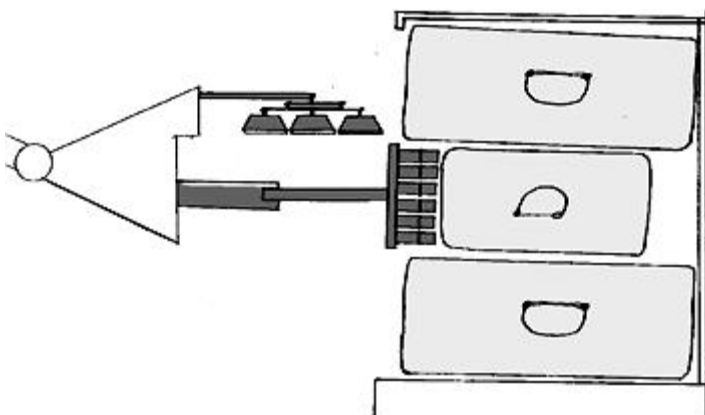
Devices for picking-up and depositing articles or materials	B65G 47/90
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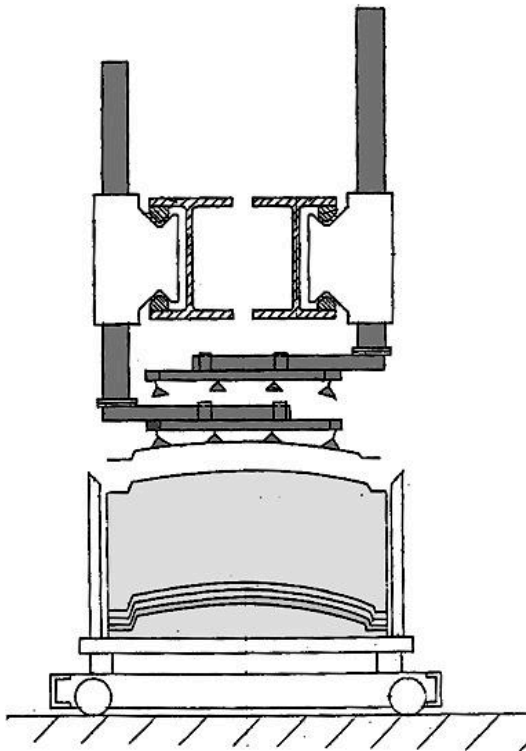
B65G 47/917**{control arrangements}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 47/918****{with at least two picking-up heads}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:





References

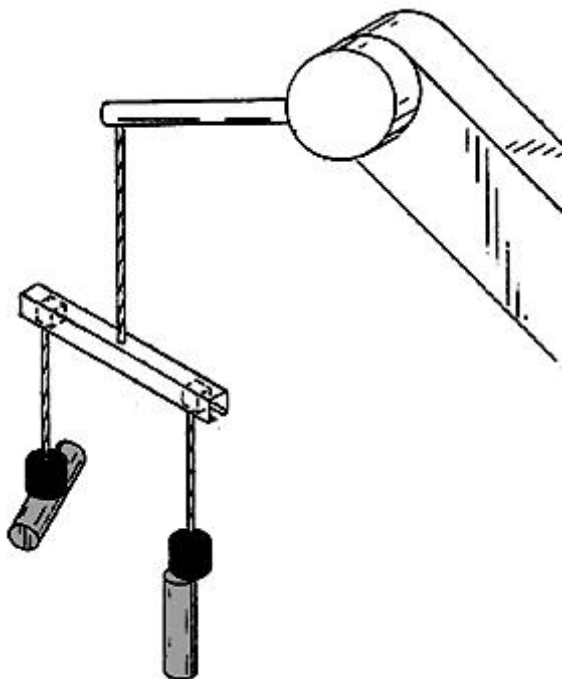
Informative references

Attention is drawn to the following places, which may be of interest for search:

Control arrangements	B65G 47/907
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B65G 47/92**incorporating electrostatic or magnetic grippers****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

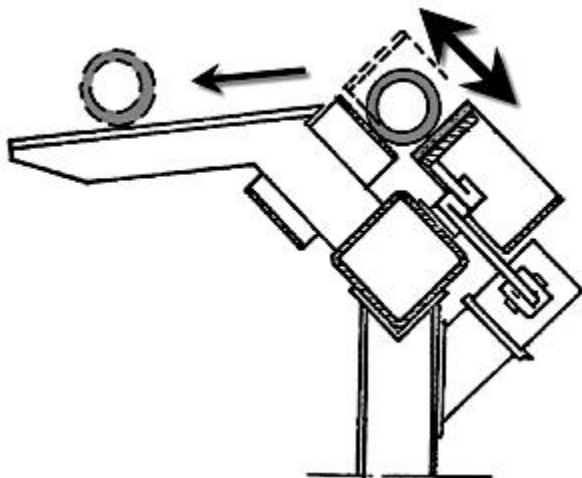
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Load-engaging elements or devices attached to lifting or lowering gear of cranes	B66C 1/04 , B66C 1/06
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B65G 47/94**Devices for flexing or tilting travelling structures; Throw-off carriages****Definition statement***This place covers:*

Only endless surfaces

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Non endless surfaces	B65G 47/96+
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B65G 47/945

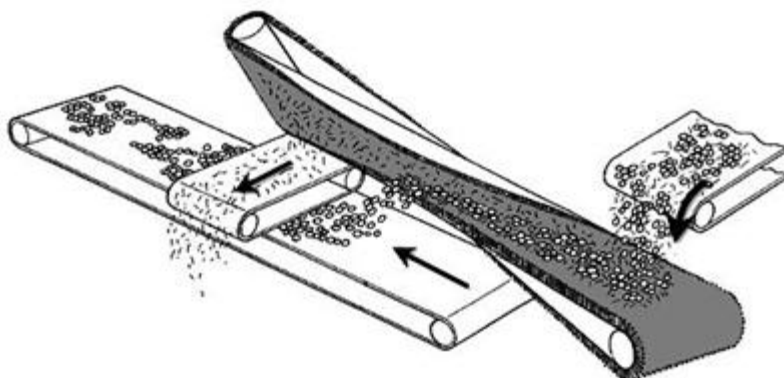
{tilting endless surfaces, e.g. belts}

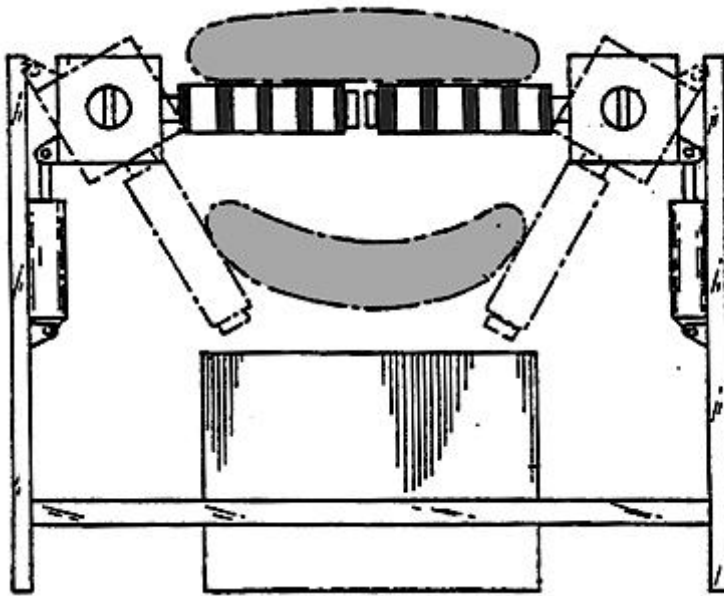
Definition statement

This place covers:

Only endless surfaces

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Non endless surfaces	B65G 47/96+
----------------------	-----------------------------

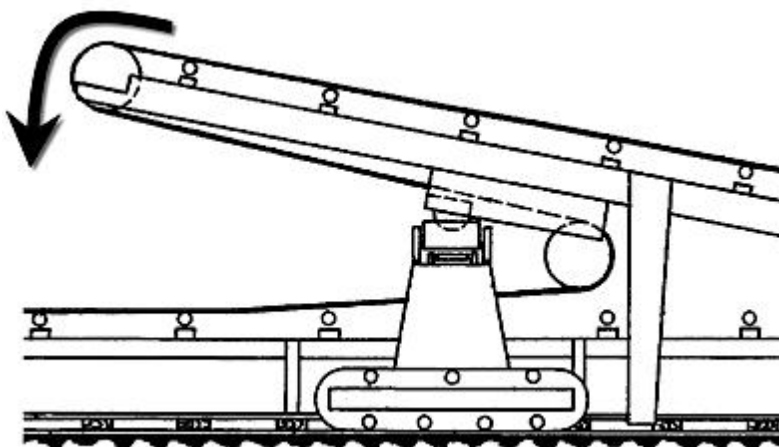
B65G 47/95

adapted for longitudinal delivery

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for supporting or guiding belts	B65G 15/60
Devices for tilting links or platform	B65G 47/967

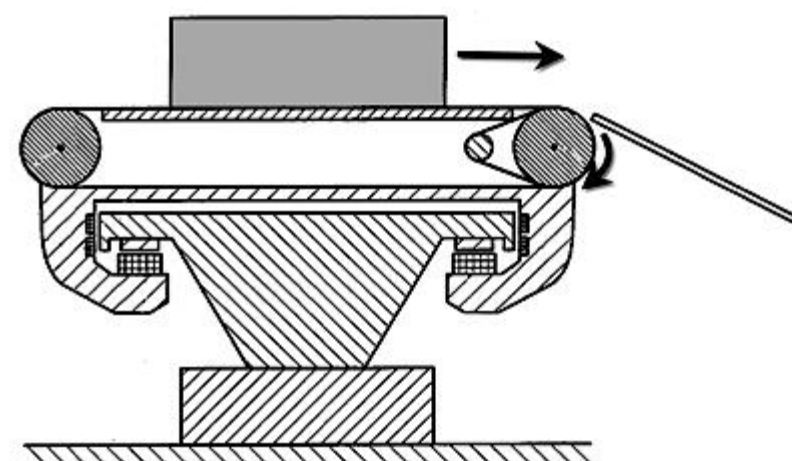
B65G 47/96

Devices for tilting links or platform {(releasing load-carriers [B65G 47/38](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

The surfaces being equipped with a conveyors	B65G 17/345
Cross-belt conveyor, tilt trays	B65G 47/962 , B65G 47/965
Operation of carriers (FTCLA)	3F015/DA01

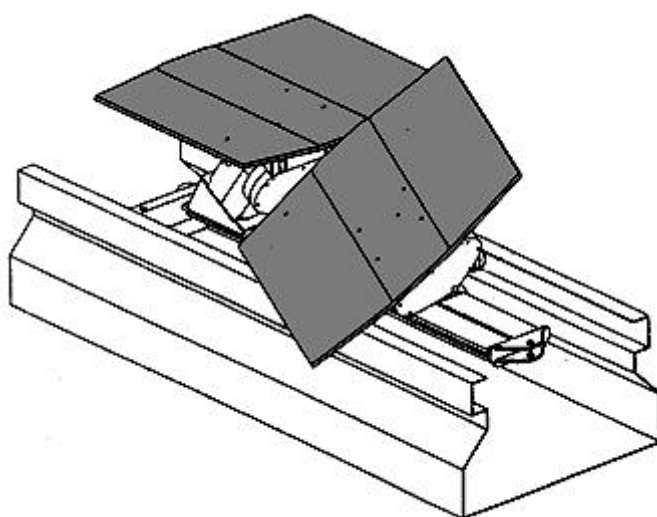
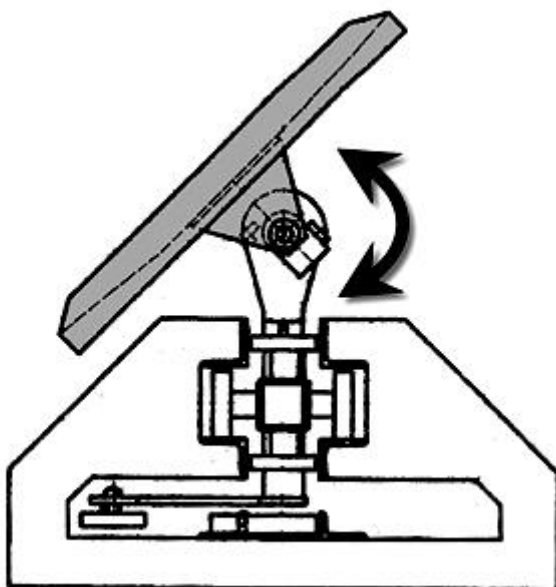
B65G 47/962

{tilting about an axis substantially parallel to the conveying direction}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Operation of carriers (FTCLA)	3F015/DA02
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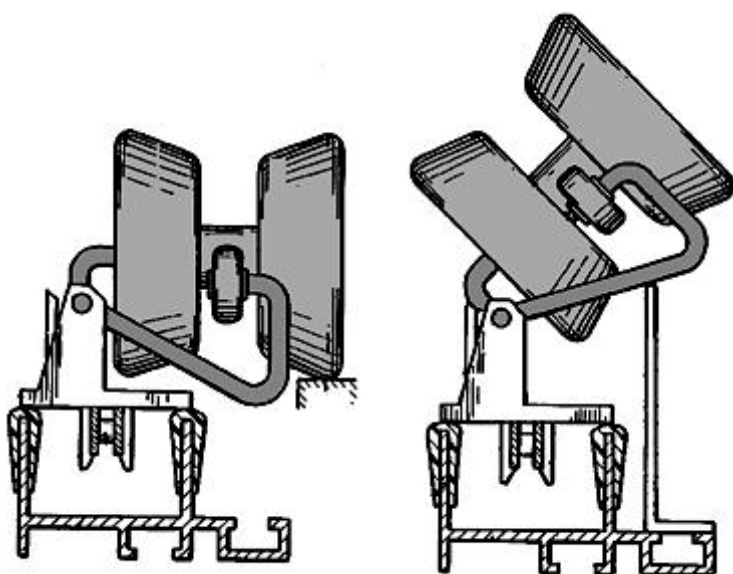
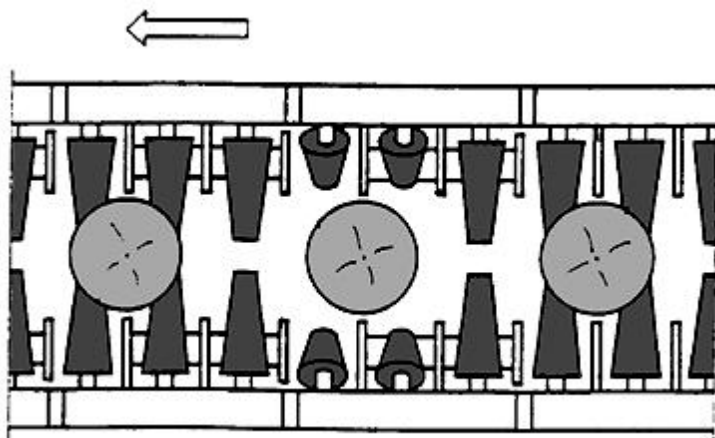
B65G 47/965

{tilting about a sided-axis, i.e. the axis is not located near the center-line of the load-carrier}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



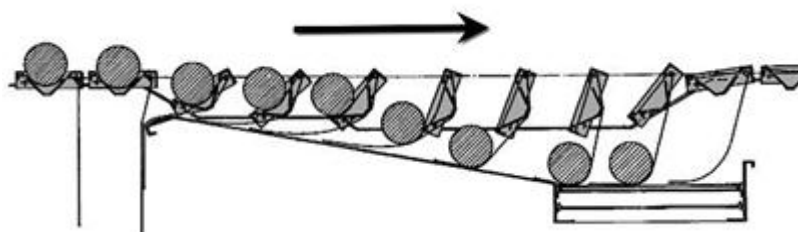
B65G 47/967

{tilting about an axis perpendicular to the conveying direction}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Dumping, tripping, or releasing load carriers	B65G 47/38
---	----------------------------

B65G 49/00

Conveying systems characterised by their application for specified purposes
not otherwise provided for

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

For conveying sheet material	B65H
Electroplating	C25D

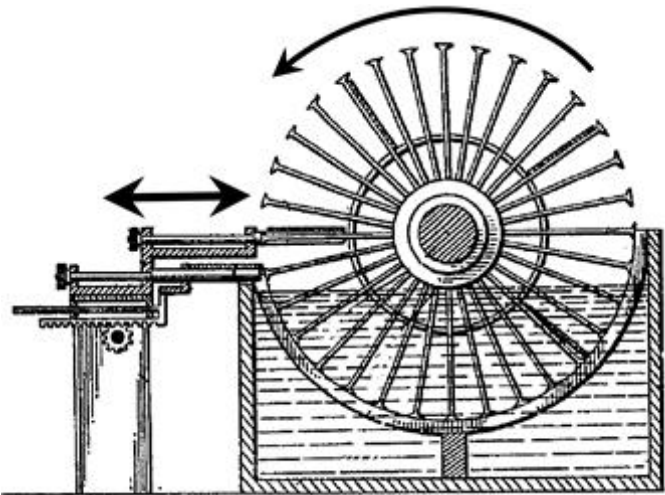
B65G 49/025

{conveyor feeding and discharging means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for transferring articles or materials between conveyors for articles	B65G 47/61
Specially adapted for workpieces of definite length	B65G 49/0409

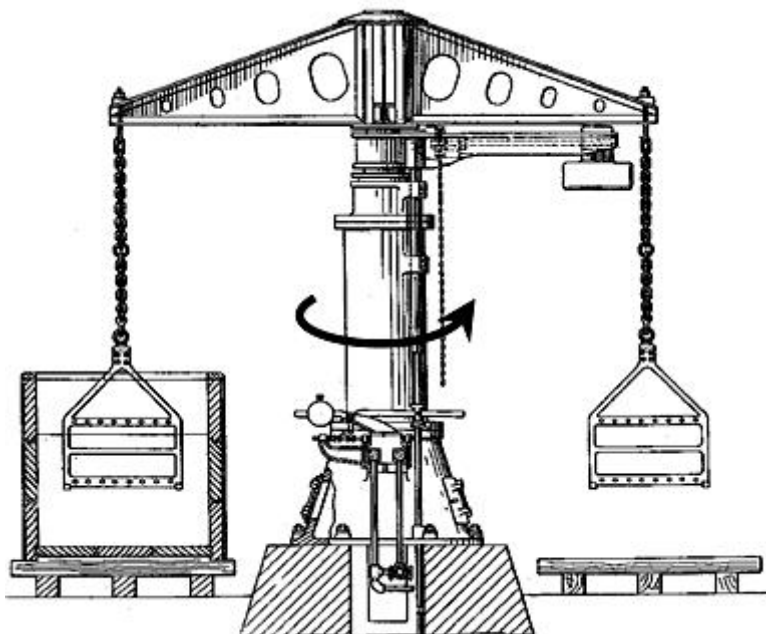
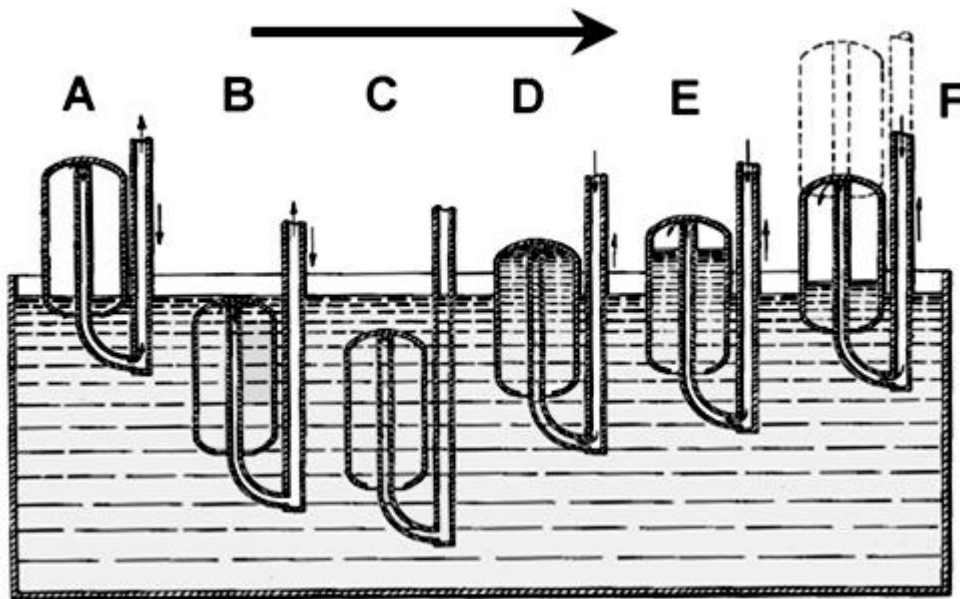
B65G 49/04

the workpieces being immersed and withdrawn by movement in a vertical direction

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



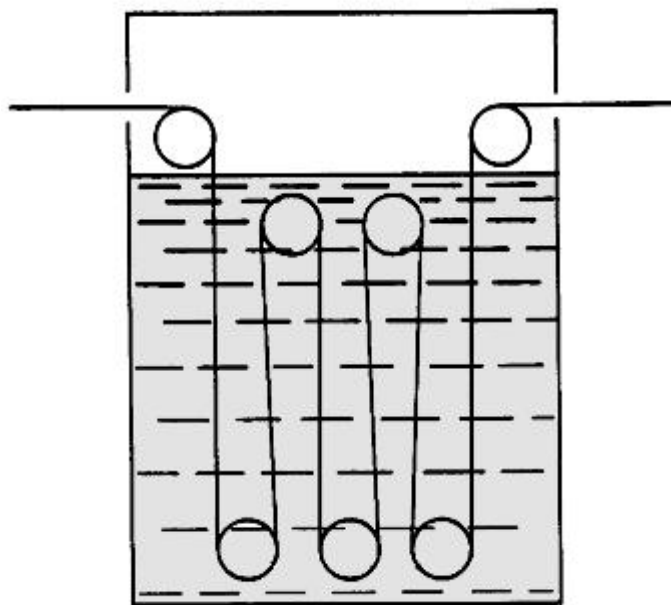
B65G 49/0404

{specially adapted for very long workpieces, e.g. chains, cables or belts}

Definition statement

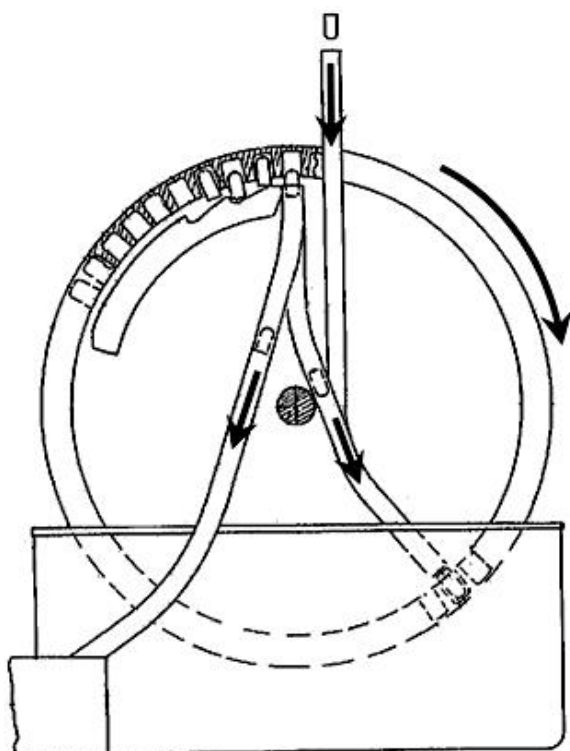
This place covers:

Illustrative example of subject matter classified in this group:



B65G 49/0409**{specially adapted for workpieces of definite length}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

Especially adapted for very long workpieces	B65G 49/0404
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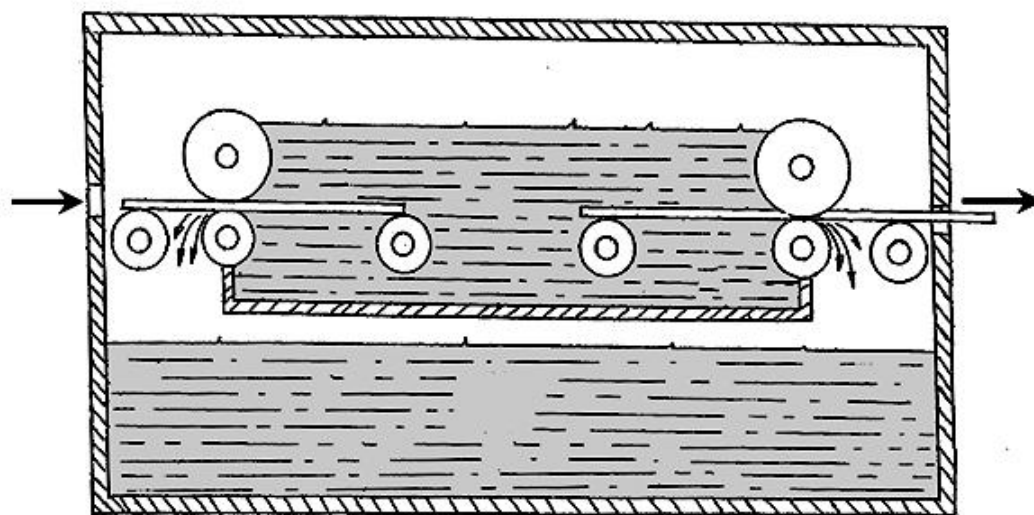
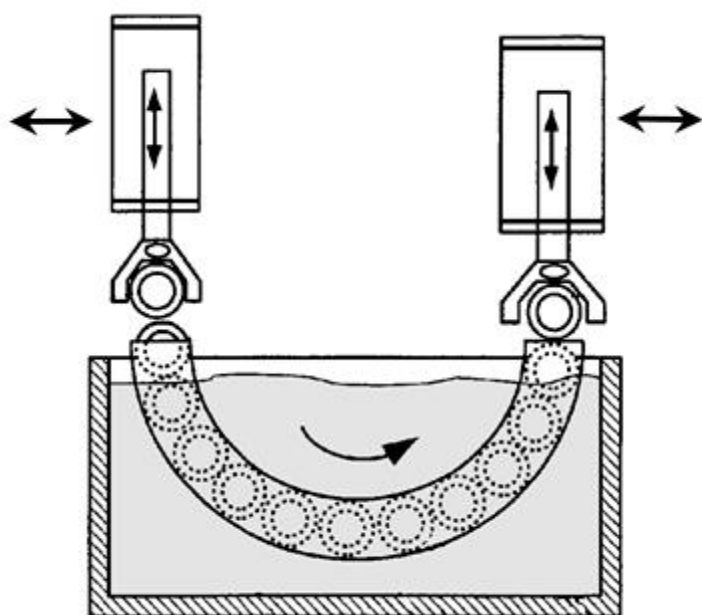
B65G 49/0413

{arrangements for conveyance through the bath}

Definition statement

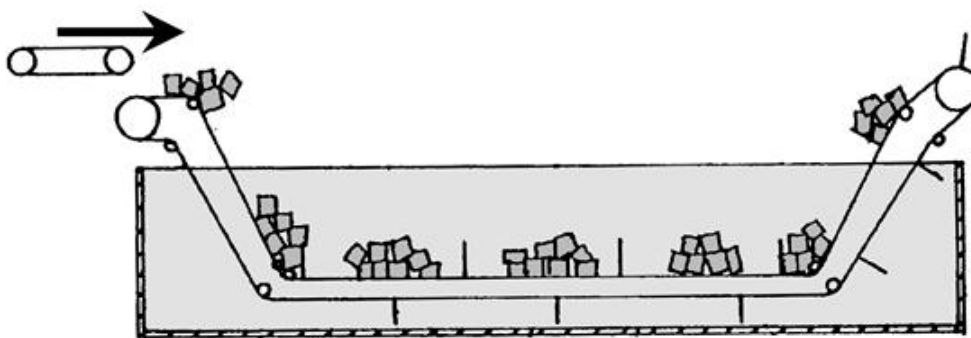
This place covers:

Illustrative example of subject matter classified in this group:



B65G 49/0418**{chain or belt conveyors}****Definition statement***This place covers:*

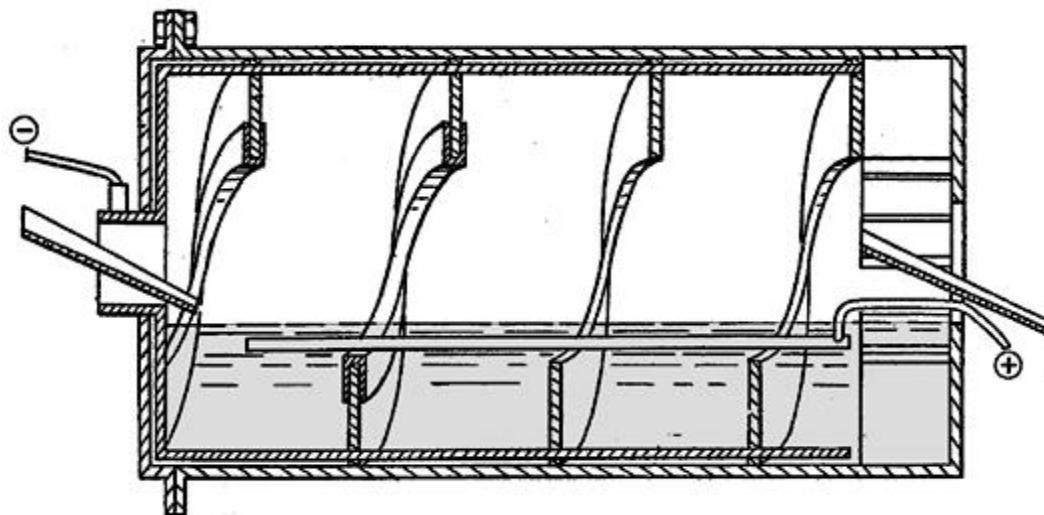
Illustrative example of subject matter classified in this group:

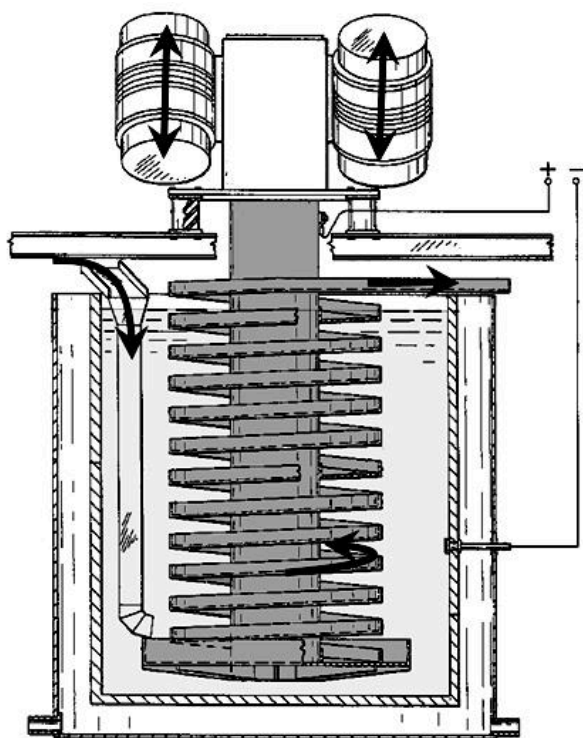
**References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

The circuit being fixed	B65G 49/045
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B65G 49/0422**{screws}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

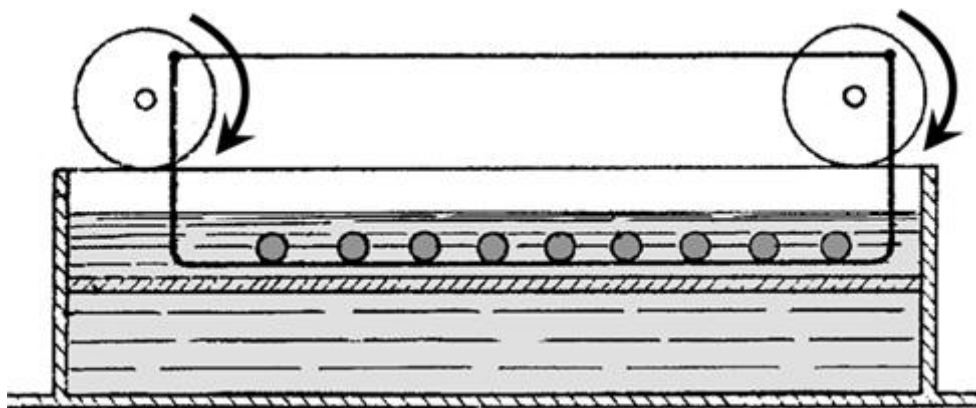


B65G 49/0427**{jigging conveyors}****Definition statement***This place covers:**Illustrative example of subject matter classified in this group:***References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Jigging conveyors	B65G 27/00
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B65G 49/0431**{reciprocating conveying means}****Definition statement***This place covers:*

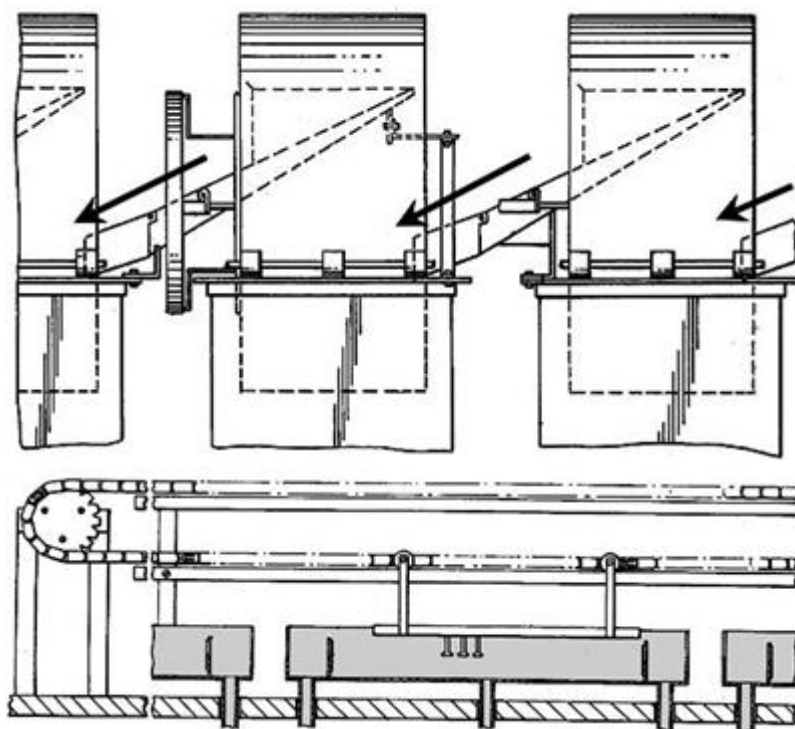
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Conveyors comprising a cyclically-moving	B65G 25/00
Kinds of mechanical conveyors	B65G 35/00

B65G 49/044**{along a continuous circuit}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Screws	B65G 49/0422
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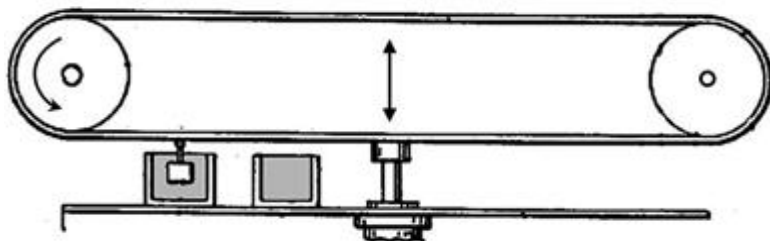
B65G 49/0445

{the circuit being movable vertically as a whole}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

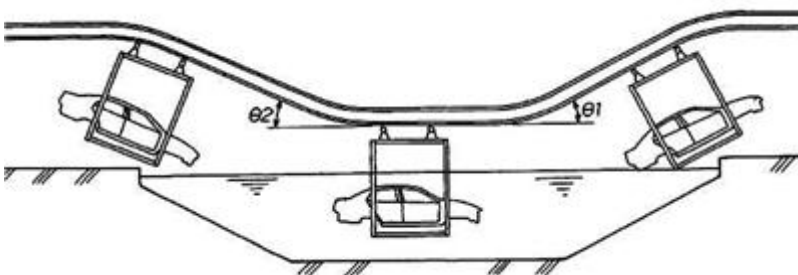
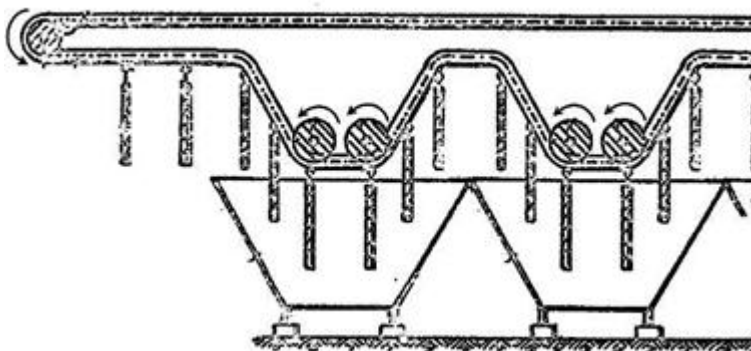
**B65G 49/045**

{the circuit being fixed}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



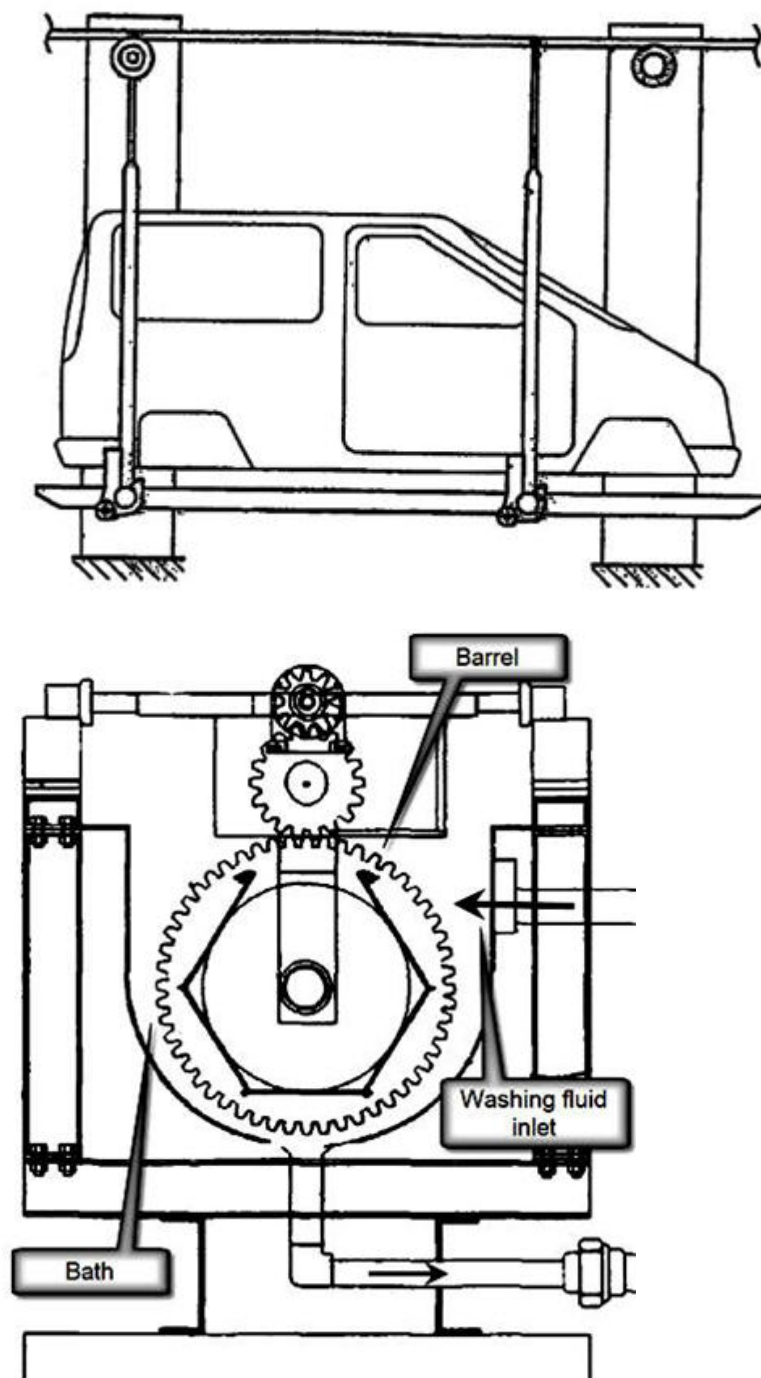
B65G 49/0454

{by means of containers -or workpieces- carriers (containers or carriers as such see [C25D 17/00](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

For electroplating	C25D 17/00
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B65G 49/0459

{movement in a vertical direction is caused by self-contained means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



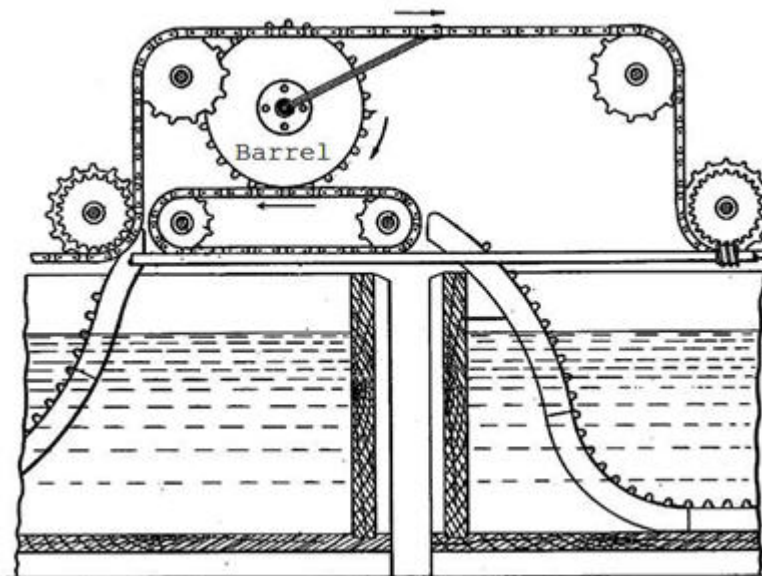
B65G 49/0463

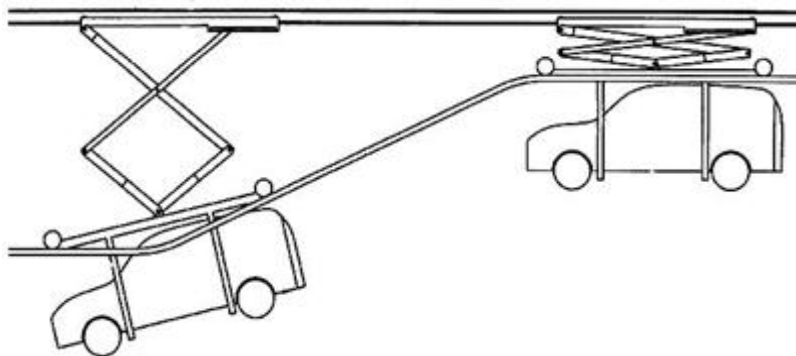
{movement in a vertical direction is caused by lifting means or fixed or adjustable guiding means located at the bath area}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

With lifting means locating at the bath area	B65G 49/0481
--	------------------------------

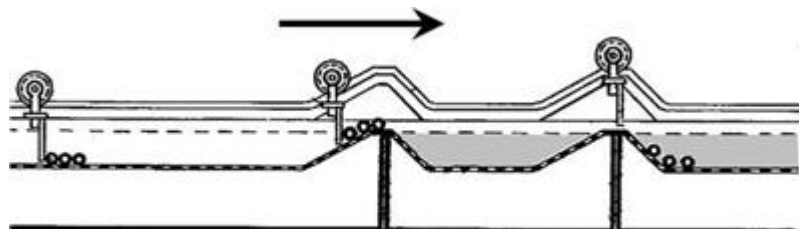
B65G 49/0468

{without container or workpieces carriers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for conveyance through the bath	B65G 49/0413
Chain or belt conveyors	B65G 49/0418
Screws	B65G 49/0422
Jiggling conveyors	B65G 49/0427
Reciprocating conveying means	B65G 49/0431

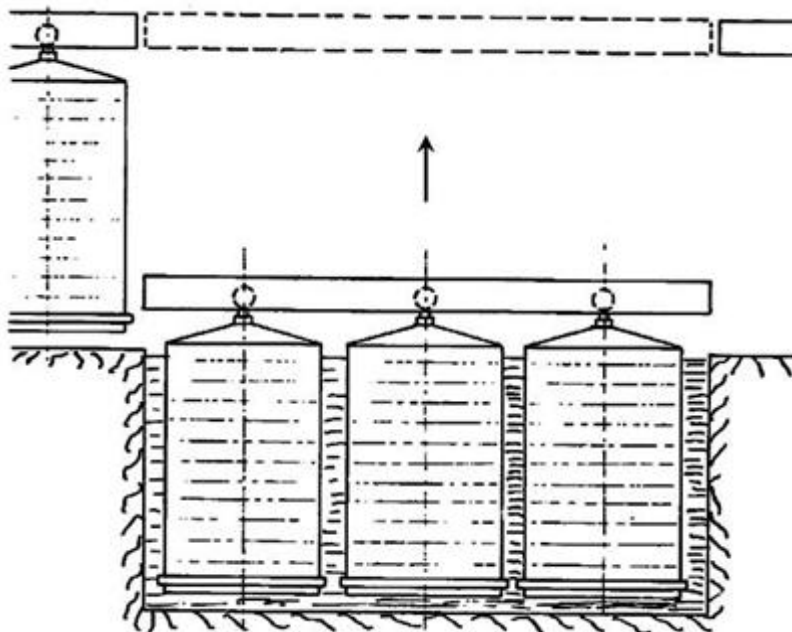
B65G 49/0477

{with lifting means for circuit parts}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



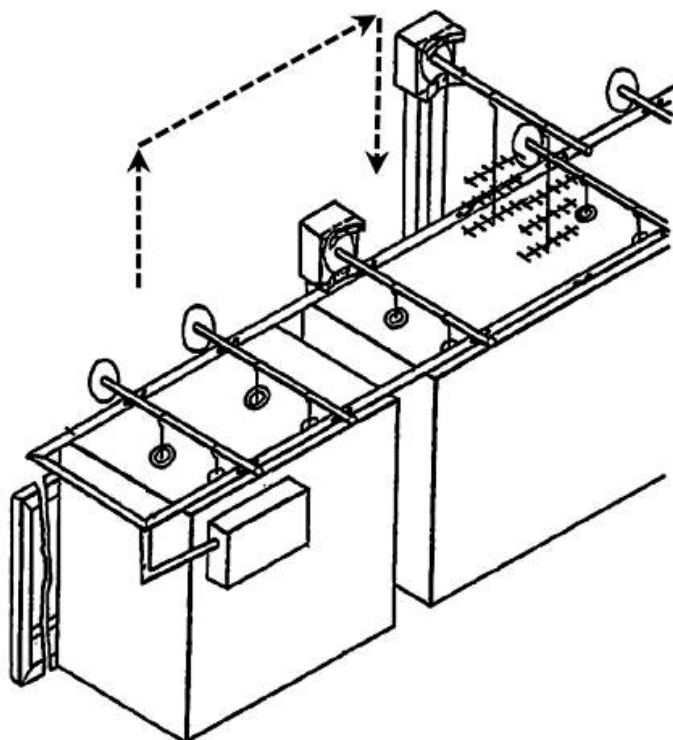
B65G 49/0481

{with lifting means locating at the bath area}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 49/0486**

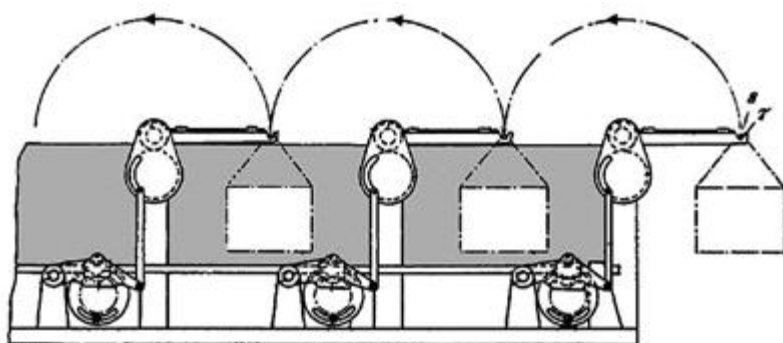
{provided with rotating or pivoting arms}

Definition statement

This place covers:

Only when articles are taken from one support to the next

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Along a continuous circuit	B65G 49/044
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Reciprocating conveying means	B65G 49/0431
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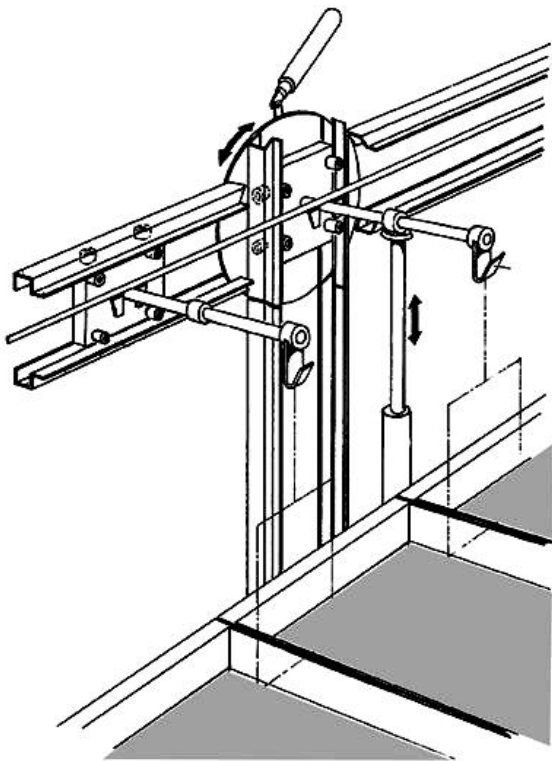
B65G 49/049

{provided with vertical guiding means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

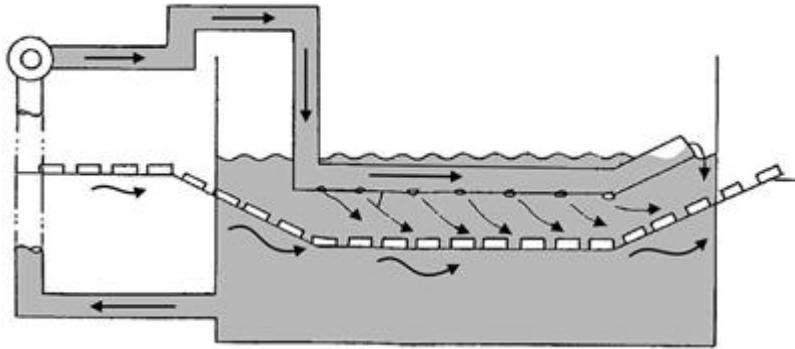
Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for conveyance through the bath	B65G 49/0413
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B65G 49/0495**{conveying by flows of fluids}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Conveying materials in bulk through pipes or tubes by liquid pressure	B65G 53/30
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B65G 49/06**for fragile sheets, e.g. glass****References****Application-oriented references***Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Transporting of glass products during their manufacture	C03B 35/00
Transport of hot glass sheets	C03B 35/14

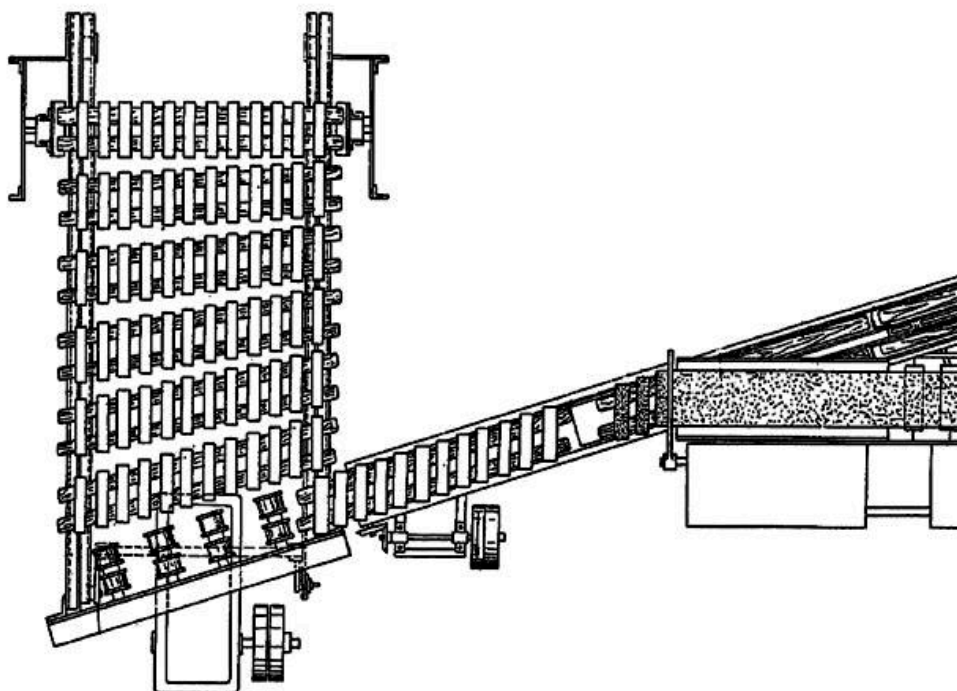
Informative references*Attention is drawn to the following places, which may be of interest for search:*

Substrate transfer through coating station	C23C
Semi-conductor transfer between work station	H10P 72/30

Special rules of classificationAspects related to conveying systems are also classed in [B65G 2249/00](#).

B65G 49/08**for ceramic mouldings****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Charging, discharging, manipulation with charge in kilns	F27D 3/00
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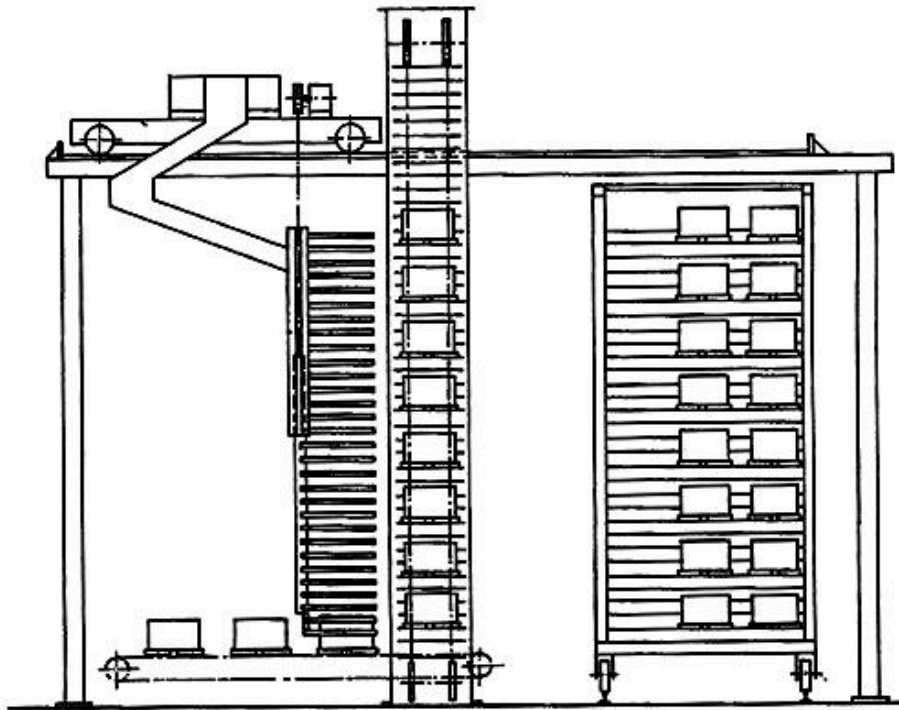
B65G 49/085

{for loading or unloading racks or similar frames; loading racks therefor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Loading or unloading (of vehicles B65G 67/00)	B65G 65/00
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B65G 51/00

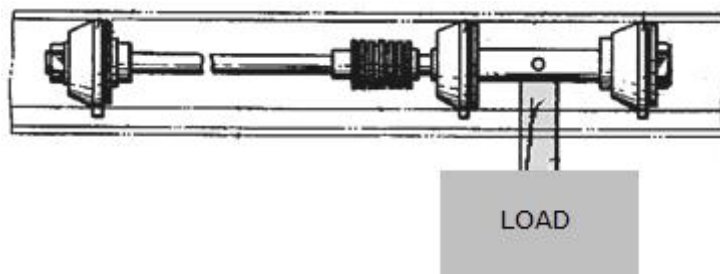
Conveying articles through pipes or tubes by fluid flow or pressure; Conveying articles over a flat surface, e.g. the base of a trough, by jets located in the surface

Definition statement

This place covers:

For articles (otherwise [B65G 53/00](#)) and with fluid propulsion

Illustrative example of subject matter classified in this group:



References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Water roundabouts	B63G 3/00
Pneumatic railways	B61B

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electrostatic, electric or magnetic conveyors	B65G 54/025
Pneumatic systems with propulsion devices between or alongside the rails	B61B 13/122
Pumps	F04
Fluid Dynamics, i.e. method or means for influencing the flow of gases or liquids	F15D
Valves, taps, cocks	F16K
Pipes, pipe joints, or associated device	F16L

B65G 51/01

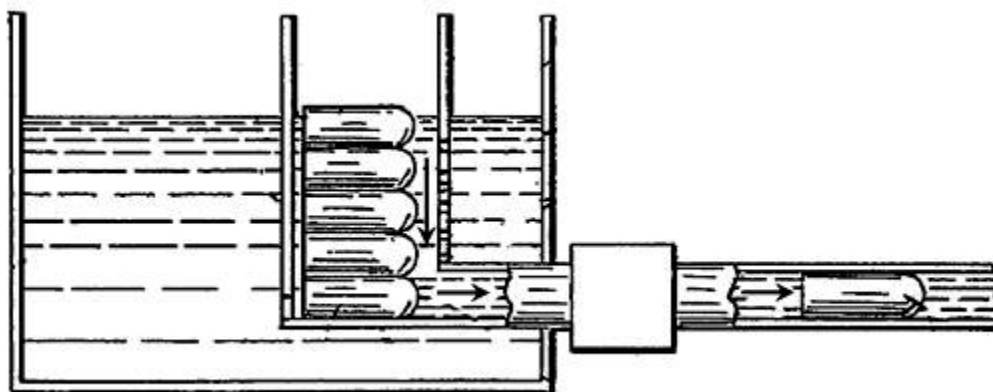
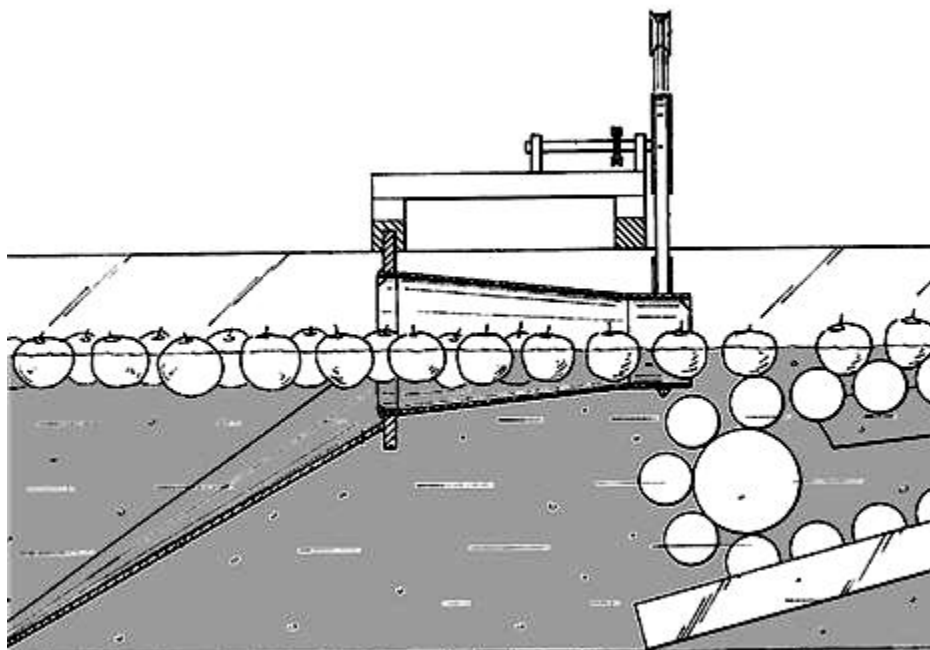
Hydraulic transport of articles ([B65G 51/04](#) takes precedence; water roundabouts [A63G 3/00](#))

Definition statement

This place covers:

Only with liquid propulsion

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Conveying materials in bulk through pipes or tubes by liquid pressure	B65G 53/30
Machines or apparatus for treating harvested fruit, vegetables or flower bulbs in bulk, not otherwise provided for; peeling vegetables or fruit in bulk; apparatus for preparing animal feeding-stuffs	A23N
Water roundabouts, e.g. freely floating	A63G 3/00
Packaging fruit or vegetables by flotation means	B65B 25/045

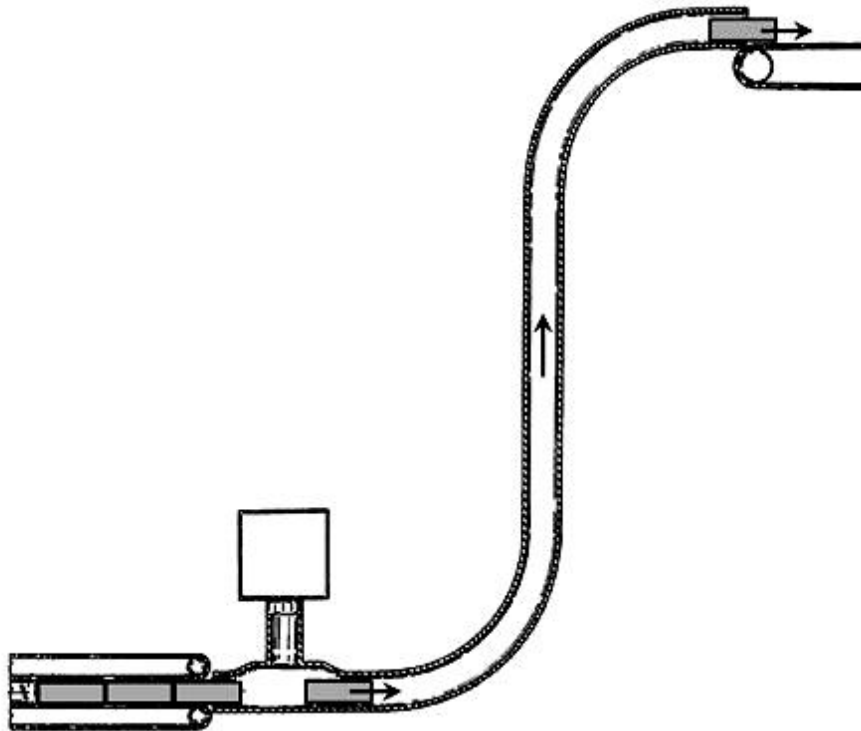
B65G 51/02

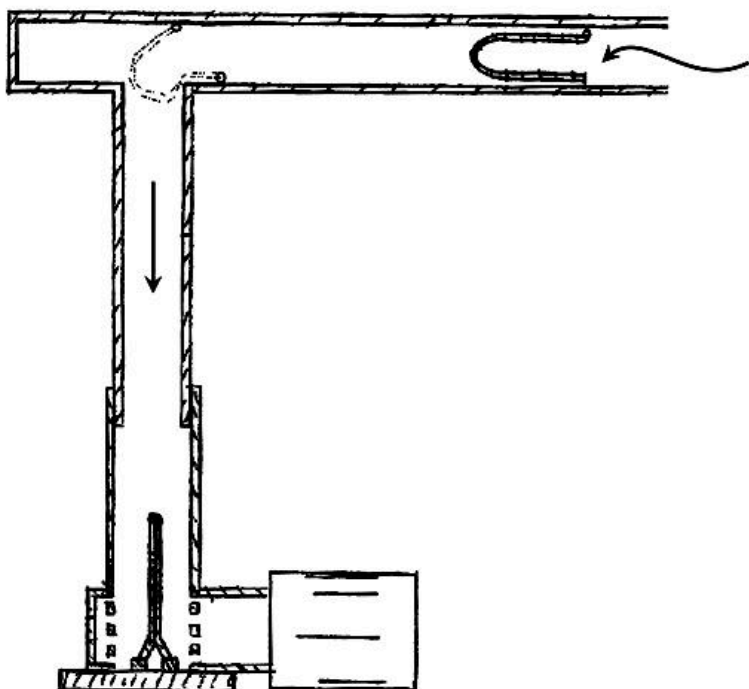
Directly conveying the articles, e.g. slips, sheets, stockings, containers or workpieces, by flowing gases

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Handling of coins or of paper currency or similar valuable papers	G07D
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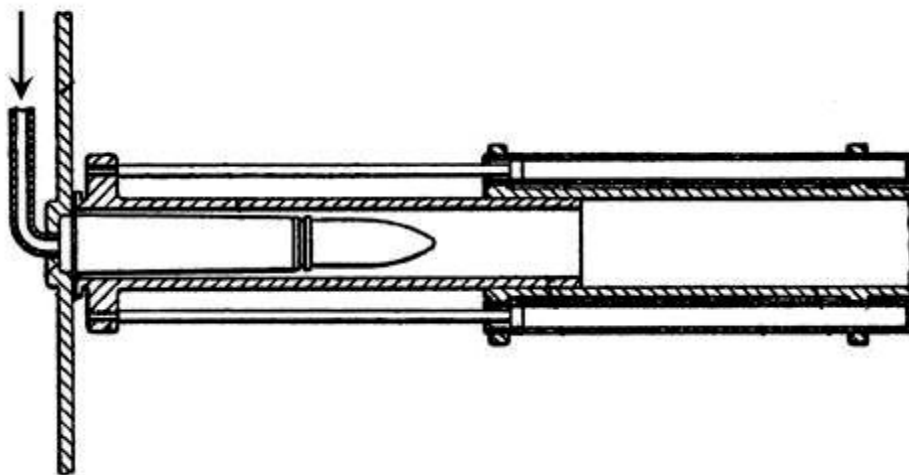
B65G 51/025

{Conveying ammunition through pipes}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



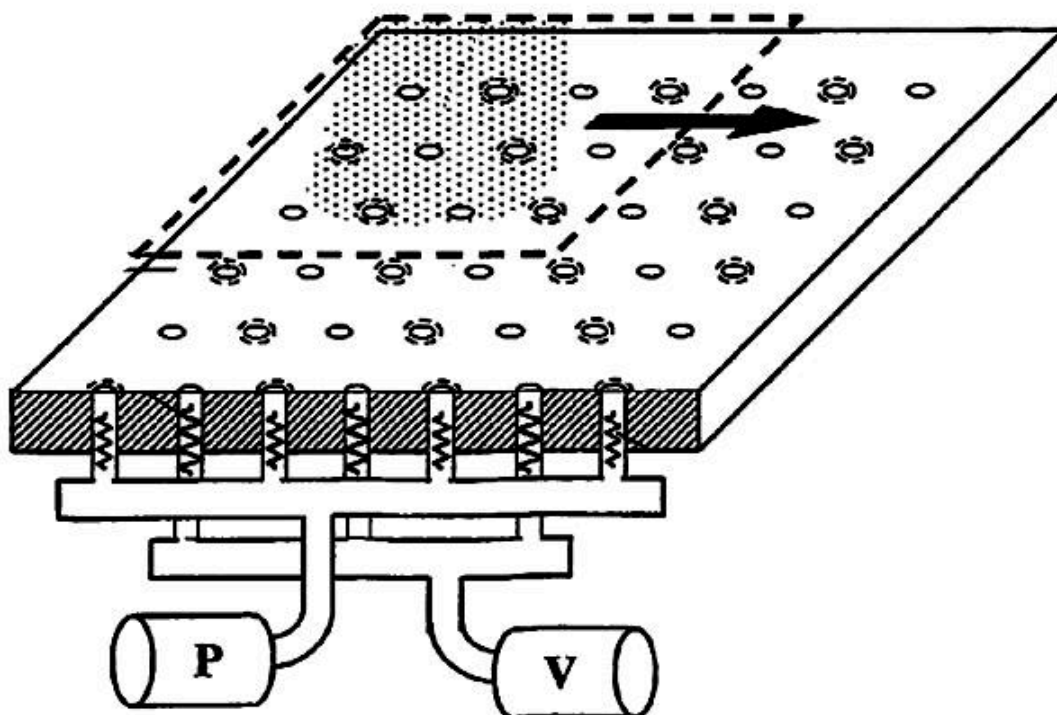
B65G 51/03

over a flat surface or in troughs

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Devices using fluid at high pressure supplied from an independent source to provide a cushion between load and ground.	B65G 7/06
Transporting devices for sheet glass supported partially or completely on fluid cushions	B65G 49/065
Apparatus specially adapted for handling semiconductor or electric solid state devices during manufacture or treatment thereof, using air tracks	H10P 72/36

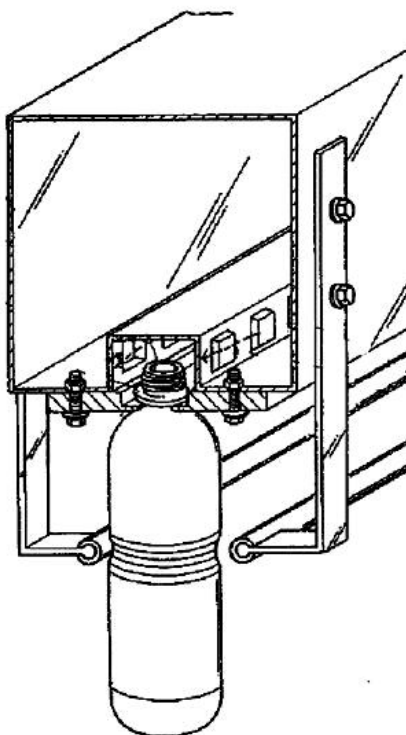
B65G 51/035

{for suspended articles, e.g. bottles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Suspended bottles	B65G 2201/0247
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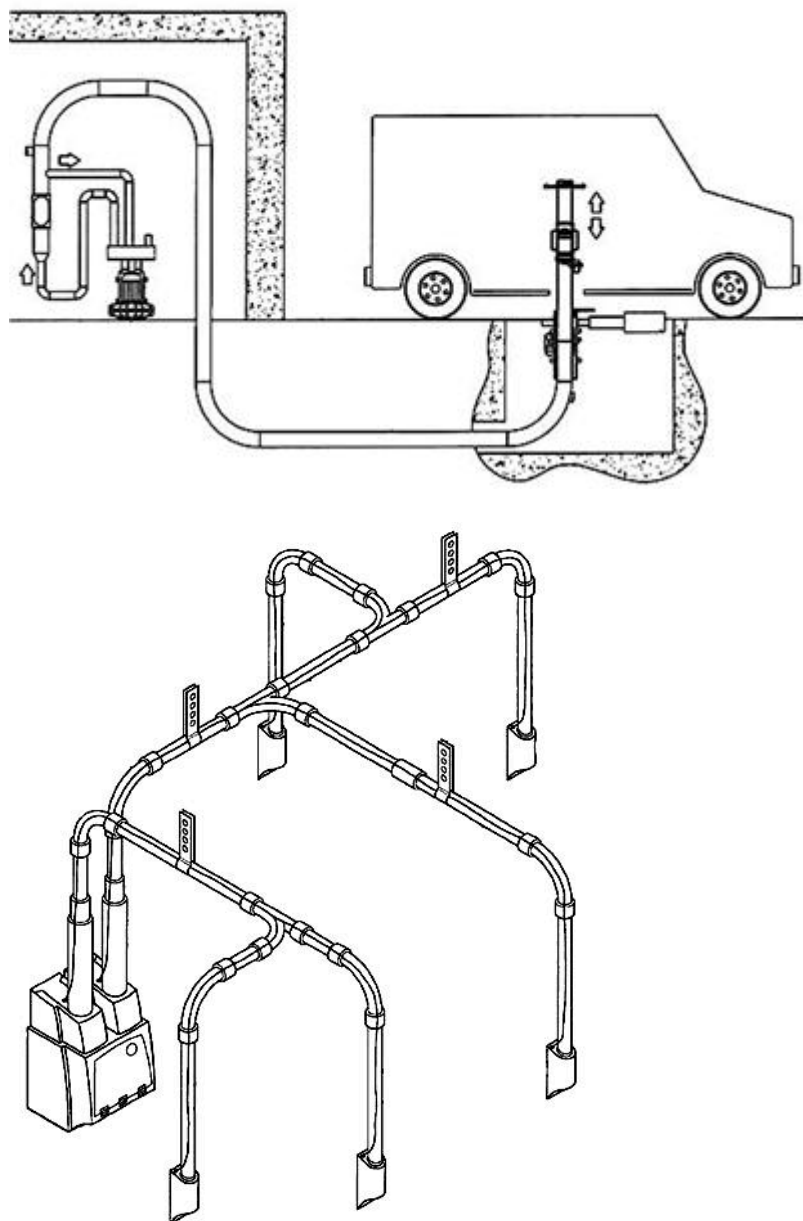
B65G 51/04

Conveying the articles in carriers having a cross-section approximating that of the pipe or tube; Tube mail systems

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

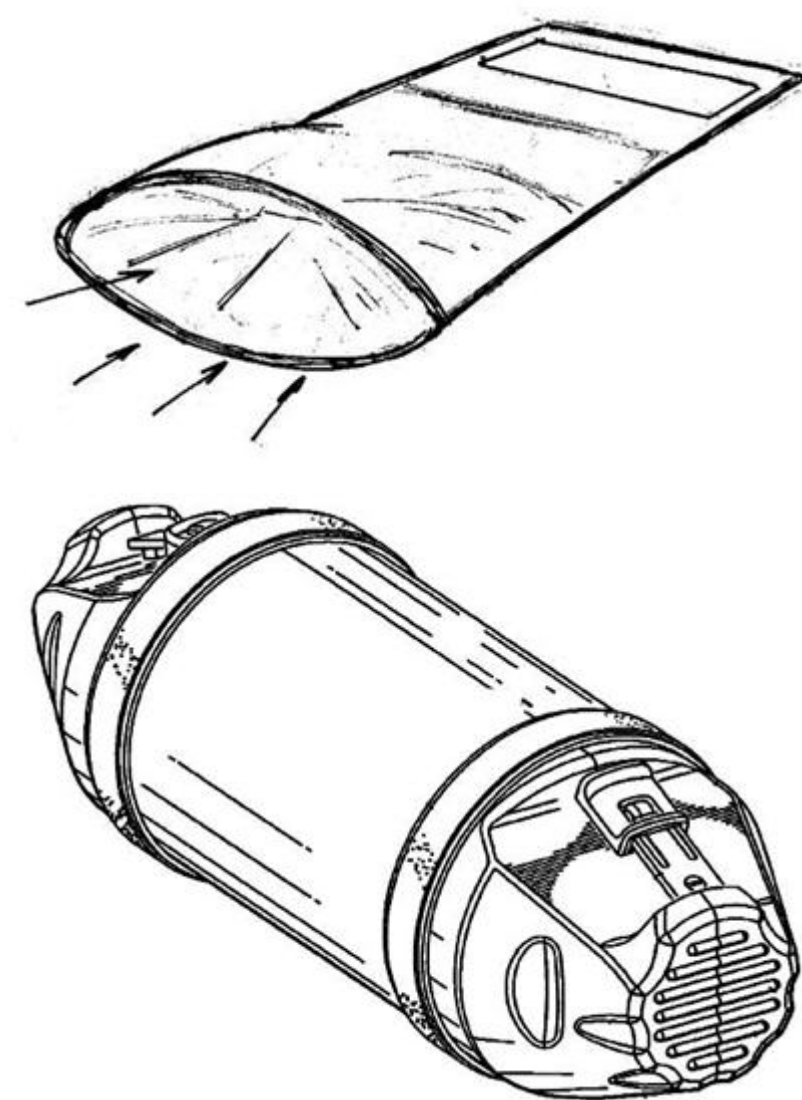
Attention is drawn to the following places, which may be of interest for search:

Gathering or removal of refuse otherwise than by receptacles or vehicles	B65F 5/005
--	----------------------------

B65G 51/06**Despatch carriers for tube mail****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

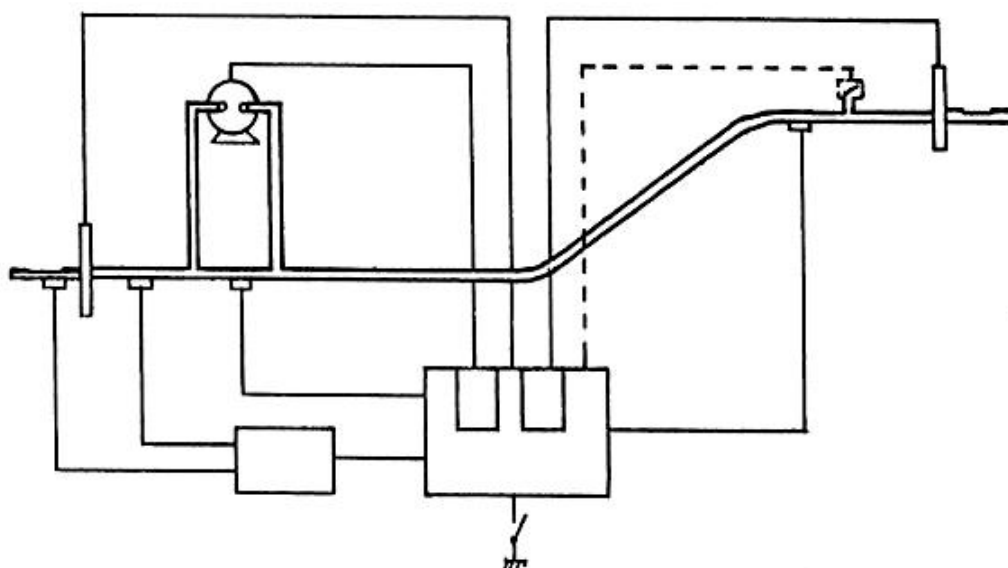
Attention is drawn to the following places, which may be of interest for search:

Conveying articles with pipes or tubes by fluid flow or pressure according to indications on carriers	B65G 51/42
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B65G 51/08**Controlling or conditioning the operating medium****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

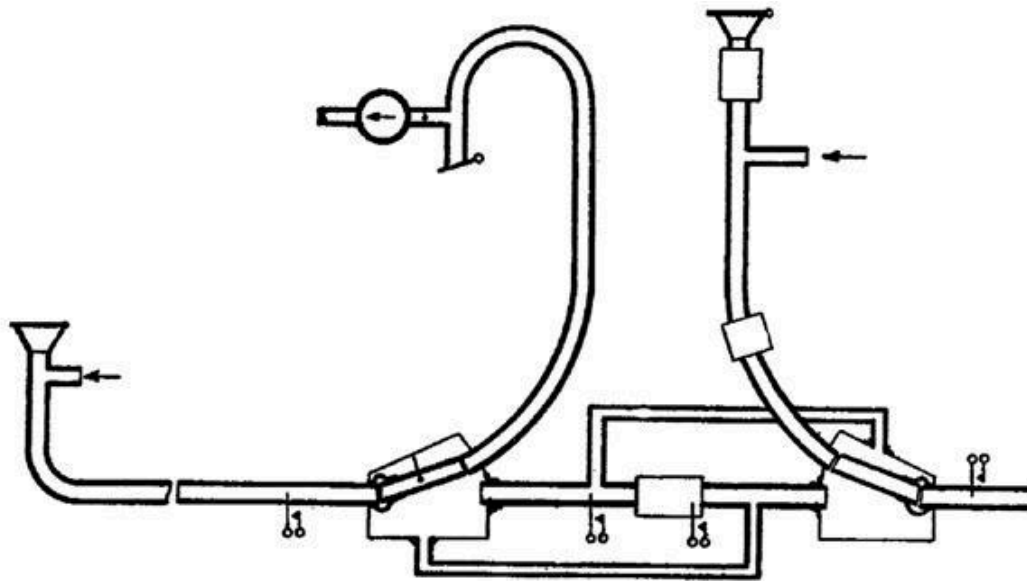
Varying, e.g. starting and stopping, gas pressure or flow	B65G 51/16
Two-way operation	B65G 51/34
In compressors	F04
Air-conditioning, e.g. de-watering, in pneumatic systems	F16L 55/09

B65G 51/10**at section junctions of pneumatic systems****Definition statement**

This place covers:

Only control at junctions of TWO tubes

Illustrative example of subject matter classified in this group:



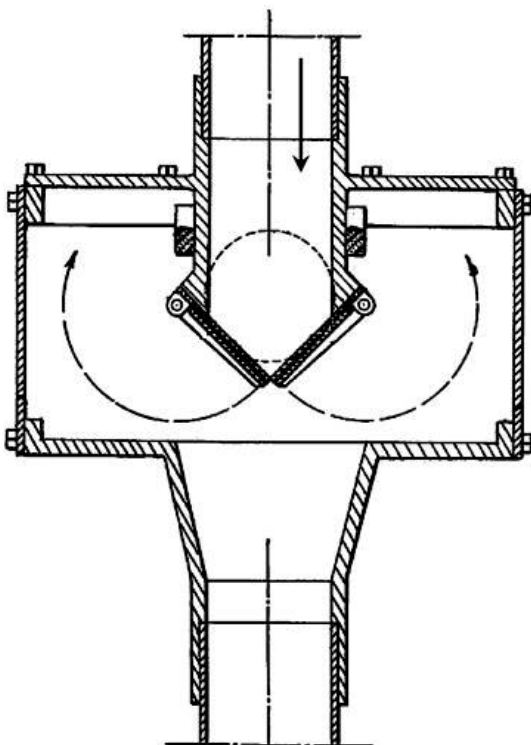
B65G 51/12

Pneumatic gates

Definition statement

This place covers:

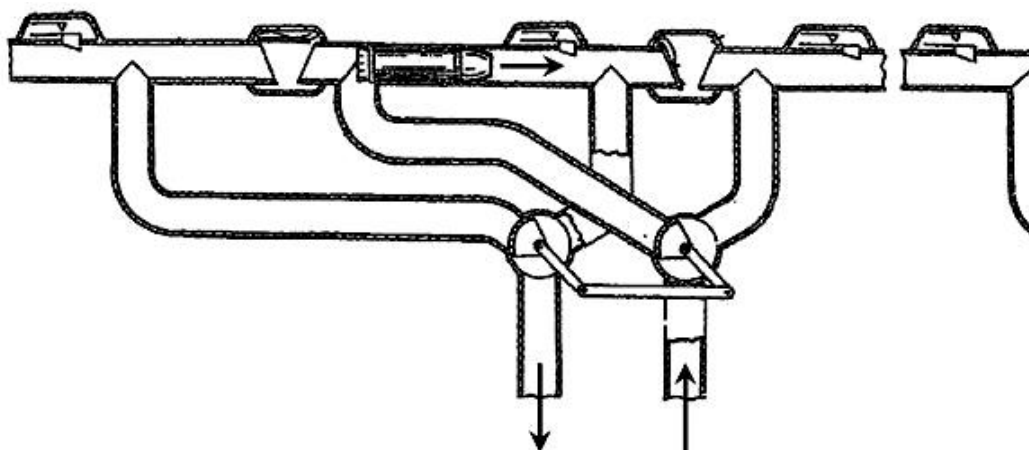
Illustrative example of subject matter classified in this group:



B65G 51/14**Pneumatic sluices****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

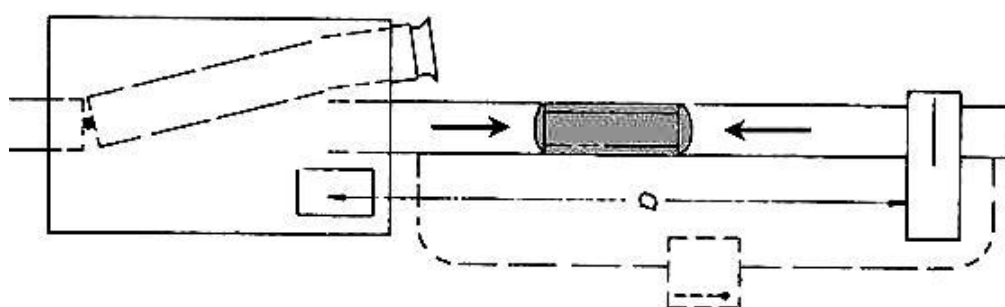
**B65G 51/16**

varying, e.g. starting or stopping, gas pressure or flow

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Braking arrangements	B65G 51/20
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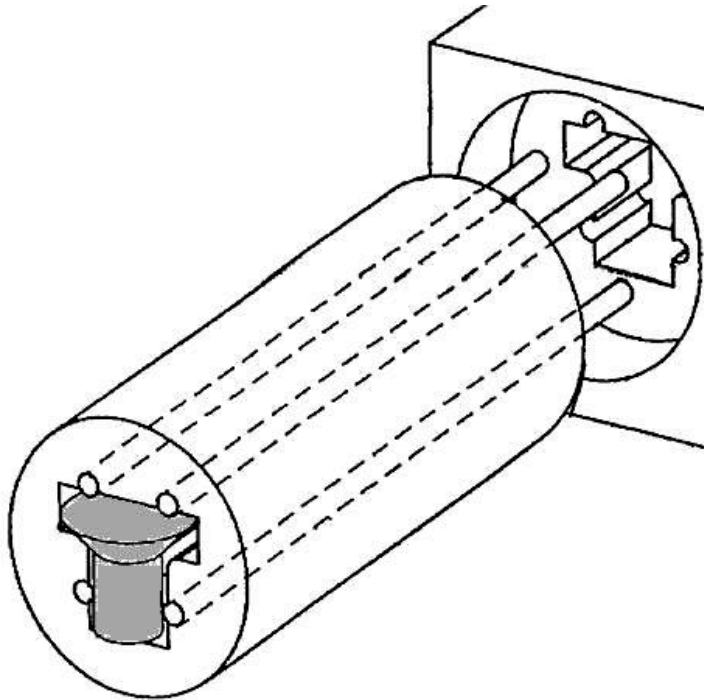
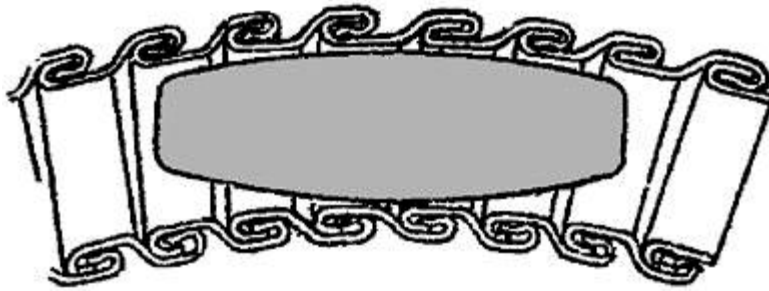
B65G 51/18

Adaptations of pipes or tubes; Pipe or tube joints

Definition statement

This place covers:

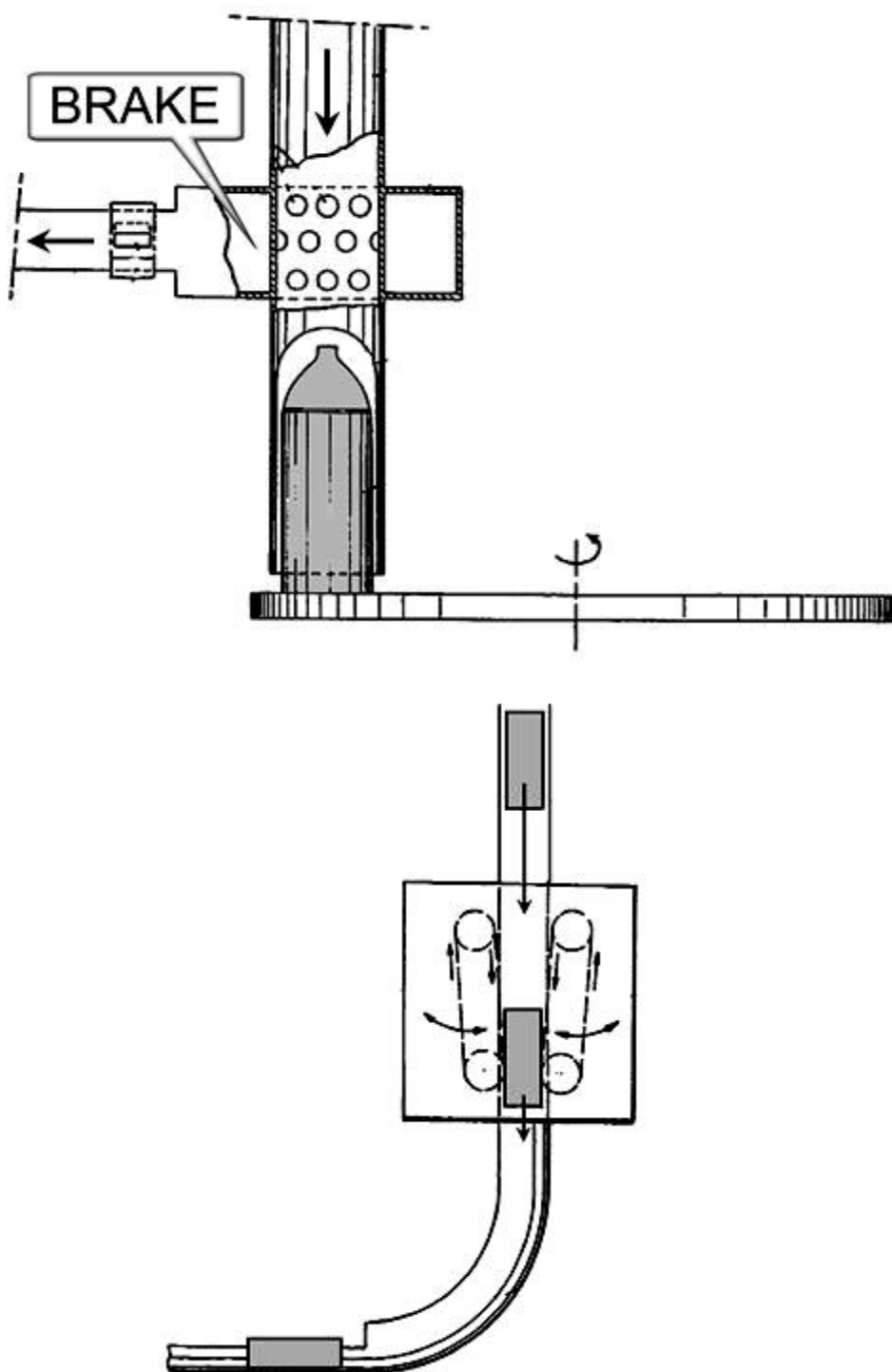
Illustrative example of subject matter classified in this group:



B65G 51/20**Braking arrangements****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



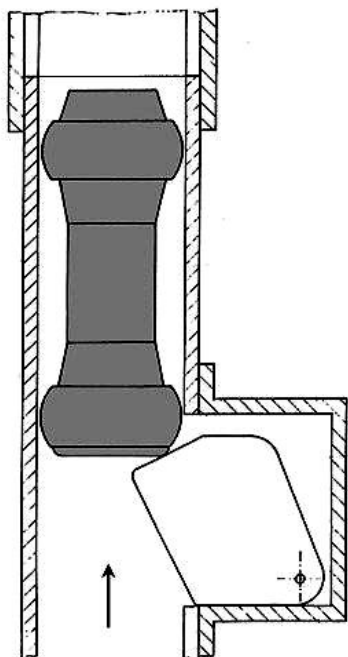
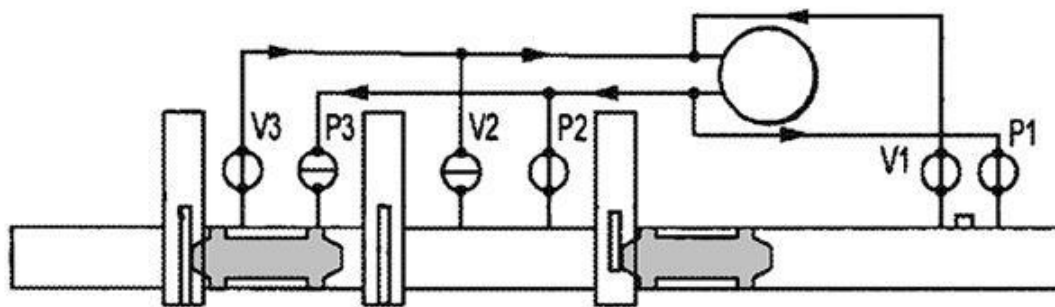
B65G 51/22

Arrangements for stopping the carriers en route in order to control carrier sequence; Blocking or separating devices

Definition statement

This place covers:

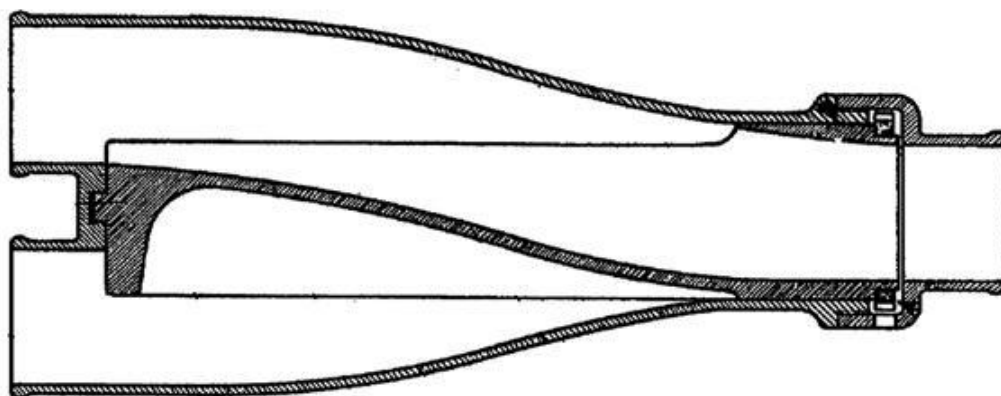
Illustrative example of subject matter classified in this group:



B65G 51/24**Switches****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

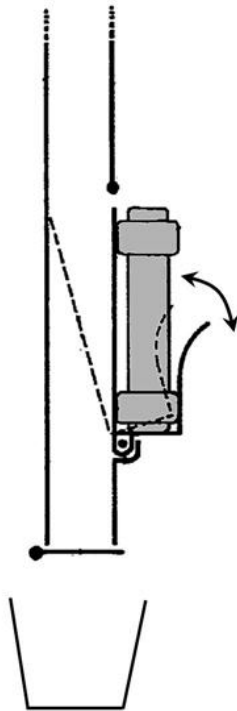
Adaptation of pipes and tubes, switches	B65G 53/56
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B65G 51/26**Stations****Definition statement**

This place covers:

Only for dispatch AND delivery (combined)

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Two way operation	B65G 51/34
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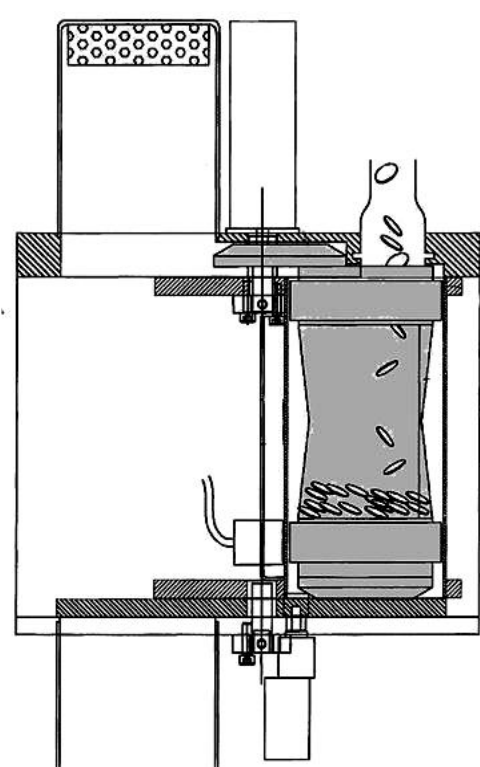
B65G 51/28

for despatch

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stations	B65G 51/26
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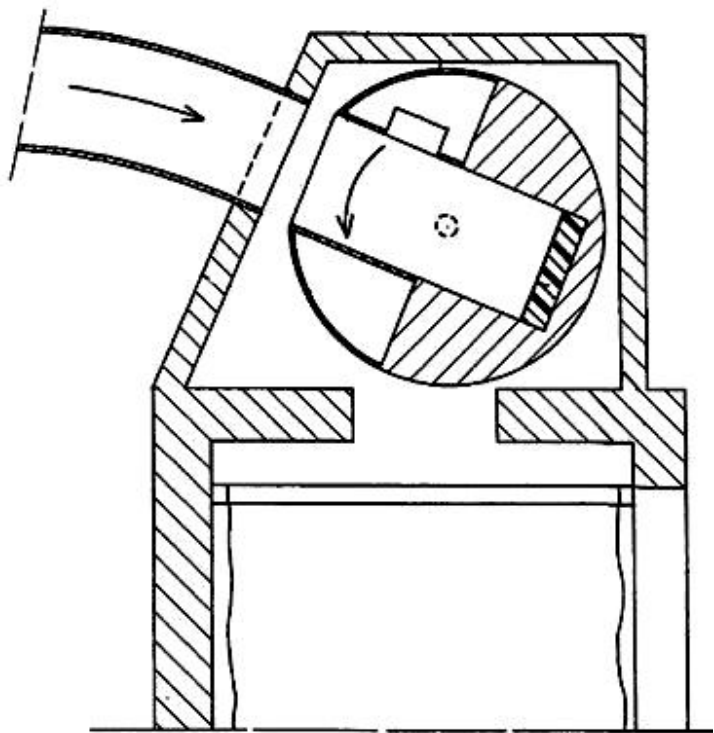
B65G 51/30

for delivery

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Breaking arrangements	B65G 51/20
Stations	B65G 51/26

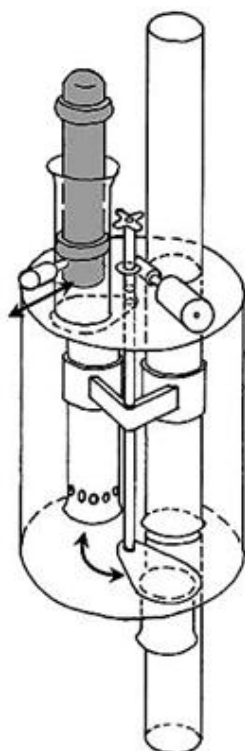
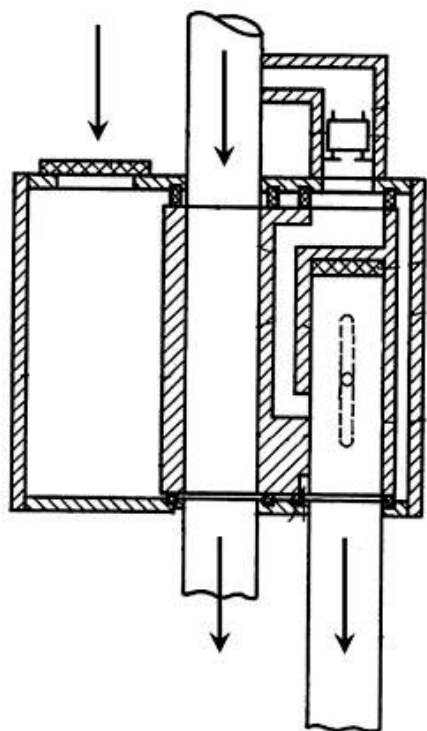
B65G 51/32

for despatch, delivery, and transit

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stations	B65G 51/26
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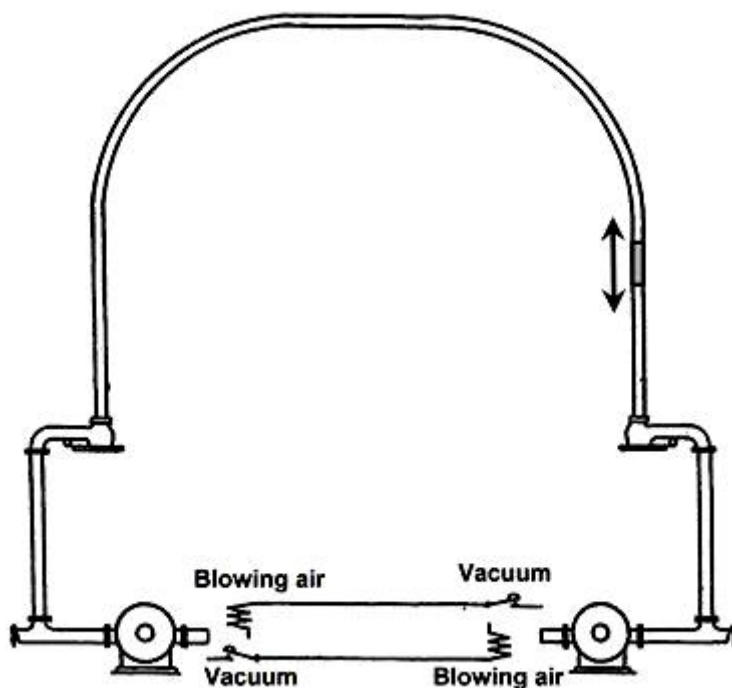
B65G 51/34

Two-way operation

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stations	B65G 51/26
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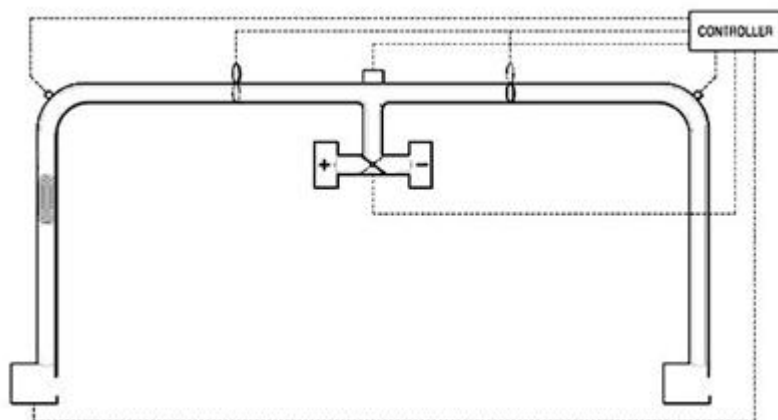
B65G 51/36

Other devices for indicating or controlling movements of carriers, e.g. for supervising individual tube sections, for counting carriers, for reporting jams or other operating difficulties

Definition statement

This place covers:

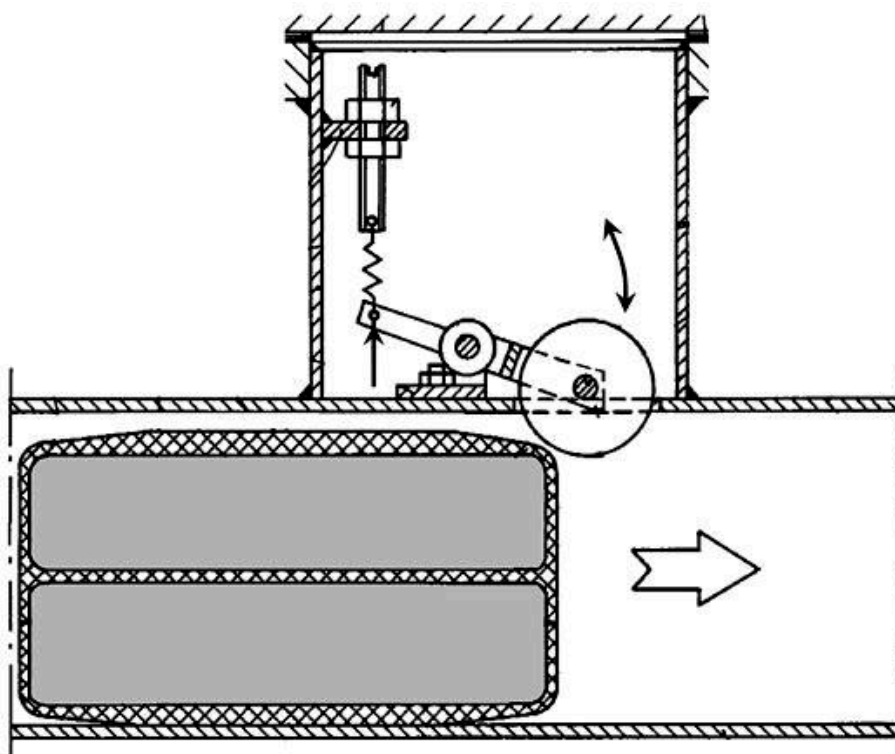
Illustrative example of subject matter classified in this group:



B65G 51/38**Contact devices on interior of tubes for detecting passage of carriers****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



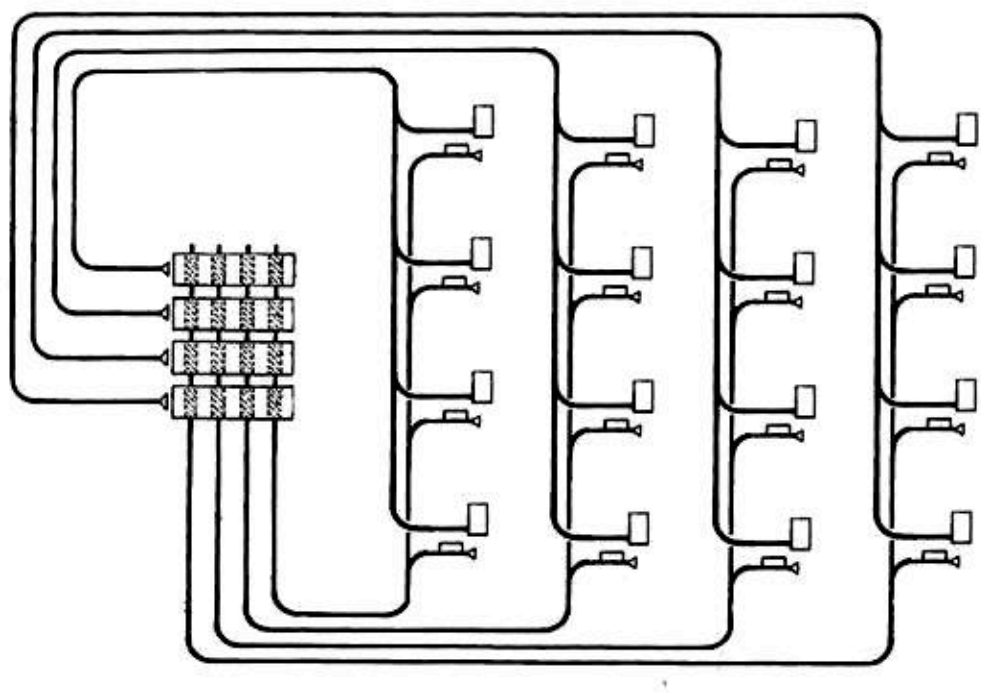
B65G 51/40

Automatically distributing the carriers to desired stations

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Conveying the articles in carriers having a cross-section approximating that of the pipe or tube; Tube mail systems	B65G 51/04
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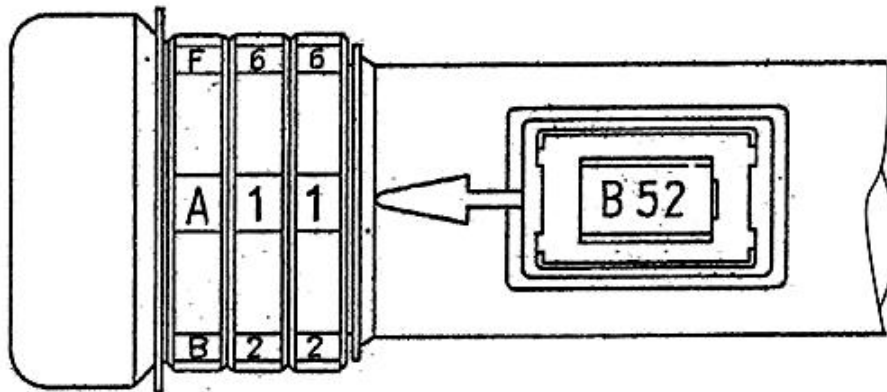
B65G 51/42

according to indications on carriers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

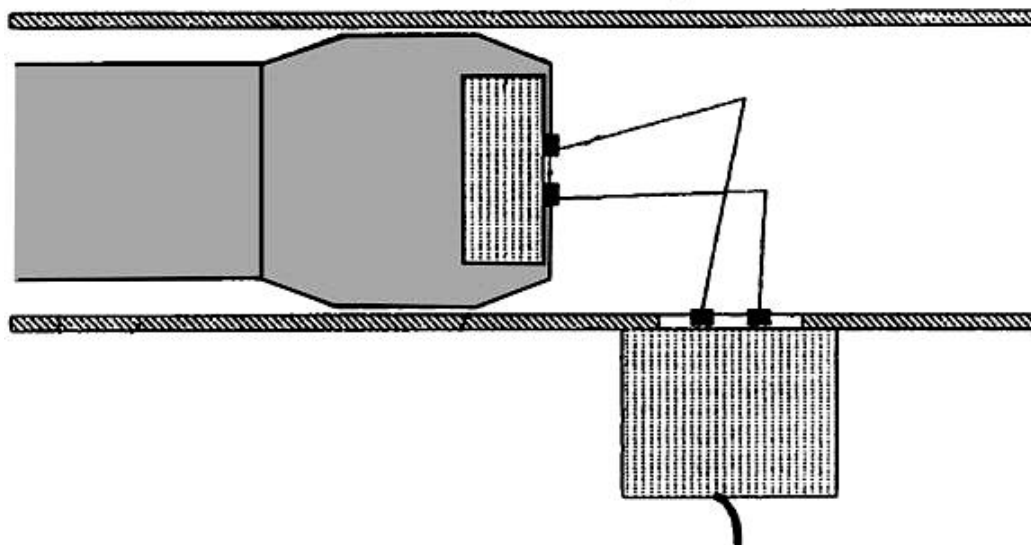
**B65G 51/44**

without mechanical contact between carriers and controllers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



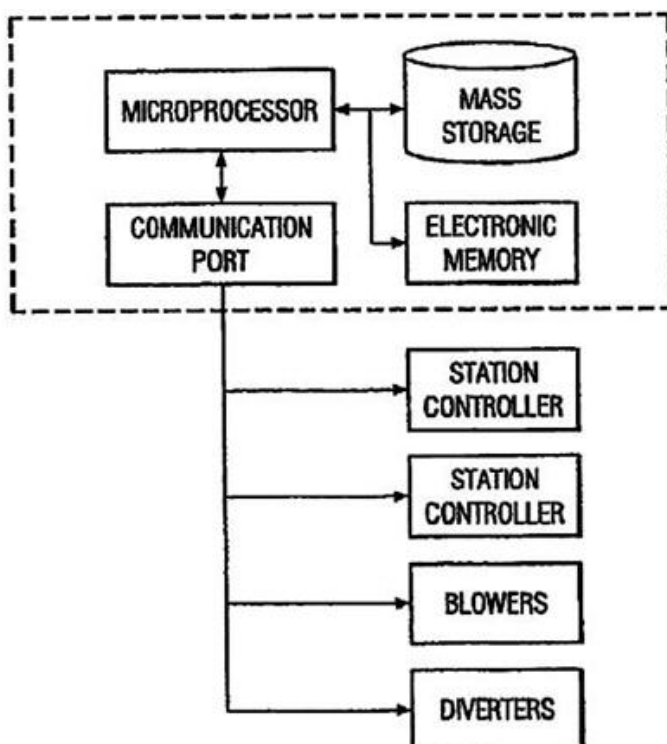
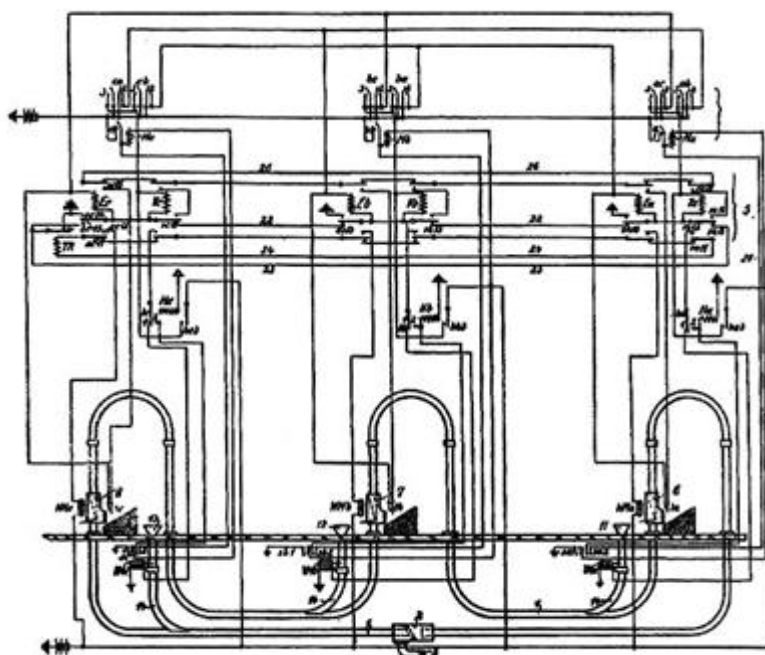
B65G 51/46

according to separate signal systems

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



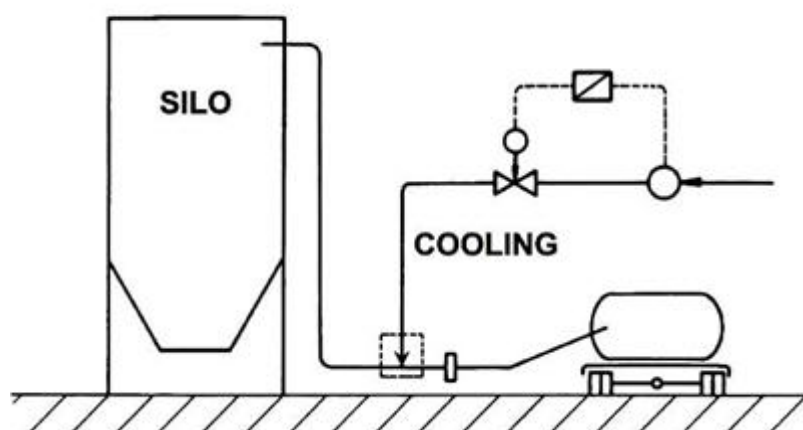
B65G 53/00

Conveying materials in bulk through troughs, pipes or tubes by floating the materials or by flow of gas, liquid or foam

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Loaders for hay or cereals	A01D 87/00
Dredging	E02F
Winning material out of alluvial deposits	E21C 45/00
Hydraulic or pneumatic mine-filling-up machines	E21F 15/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Adaptations of pipes or tubes with means for special treatment to facilitate transport	B65G 53/526
Fluidising in connection with loading or unloading	B65G 69/06
Indexing codes relating to handling devices, e.g. conveyors, characterised by the type of product or load being conveyed or handled	B65G 2201/00
Machines or apparatus for treating harvested fruit, vegetables or flower bulbs in bulk, not otherwise provided for	A23N
Discharging means for mixtures containing clay or cementitious material	B28C 7/16
Fluidising devices facilitating filling or emptying of large containers	B65D 88/72
Production of sucrose; apparatus specially adapted therefor	C13B

Pumping fluid by direct contact of another fluid or by using inertia of fluid to be pumped	F04F
Fluid dynamics, i.e. method or means for influencing the flow of gases or liquids	F15D
Pipe-line systems	F17D

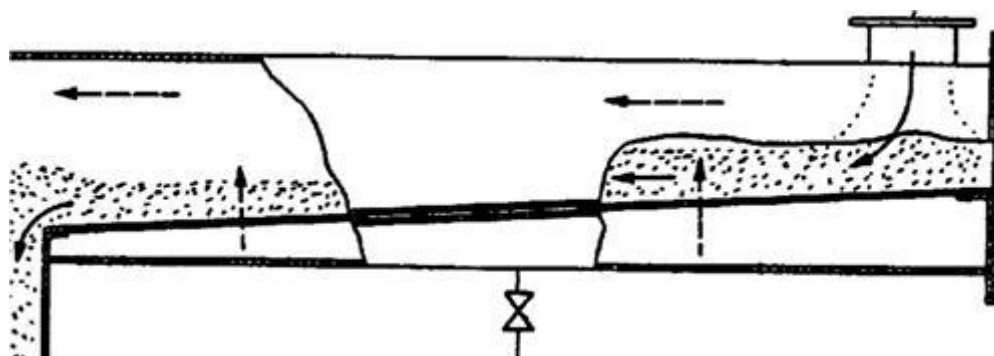
B65G 53/02

Floating material troughs

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

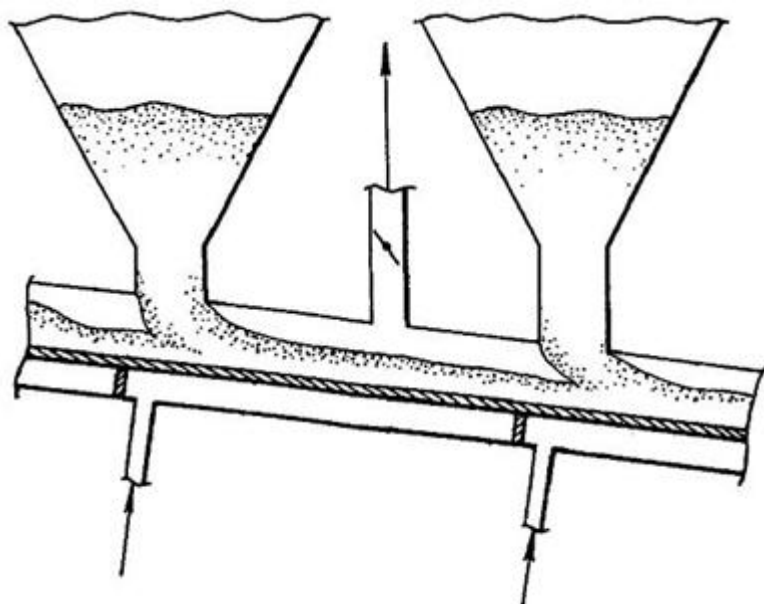
Attention is drawn to the following places, which may be of interest for search:

Hydraulic transport of articles	B65G 51/01
Air slides	B65G 53/04
Fluidising devices	B65D 88/72

B65G 53/04**Conveying materials in bulk pneumatically through pipes or tubes; Air slides****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

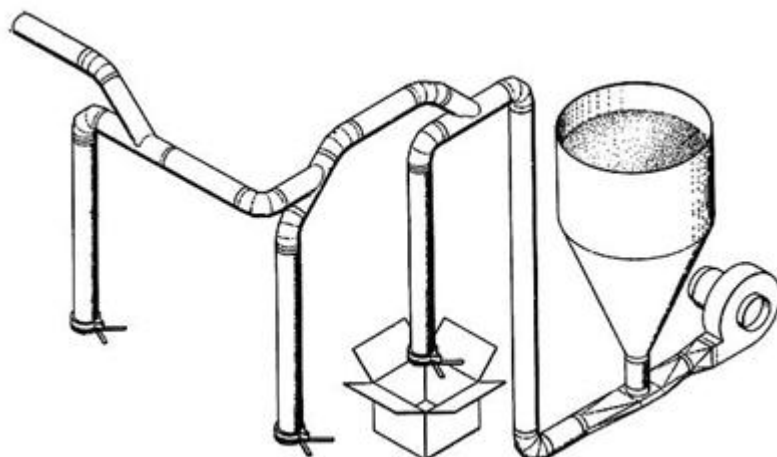
Attention is drawn to the following places, which may be of interest for search:

Floating material troughs (use of air slides)	B65G 53/02
Of ain air slide	B65G 53/20
Seeders depositing needs in rows using pneumatic means	A01C 7/081
Fluidising devices	B65D 88/72
Making pig-iron in the blast furnace with injection of pulverulent coal	C21B 5/003
Pneumatic feeding of coal to burners	F23K 3/02

B65G 53/06**Gas pressure systems operating without fluidisation of the materials****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

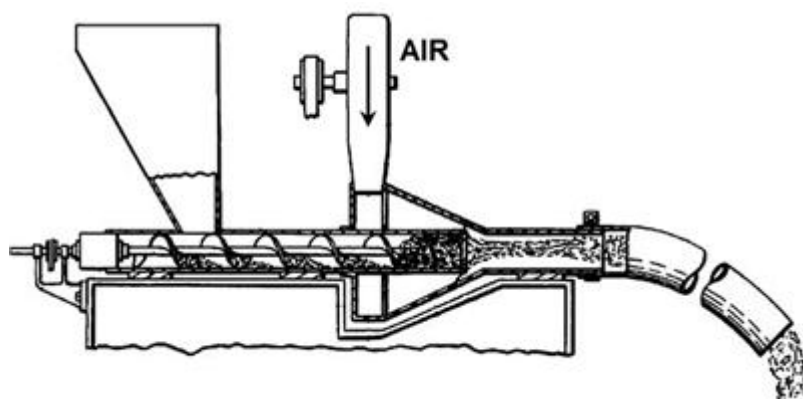
Attention is drawn to the following places, which may be of interest for search:

Gathering or removal of refuse by pneumatic means e.g. by suction	B65F 5/005
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B65G 53/08**with mechanical injection of the materials, e.g. by screw****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Screws or like rotary conveyors	B65G 53/48
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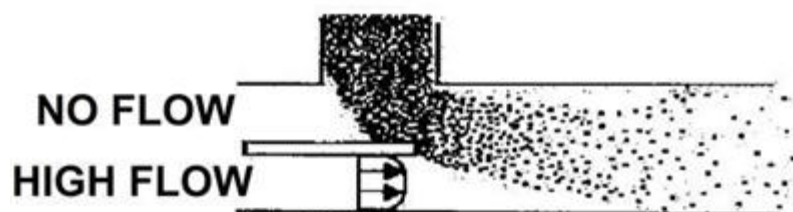
B65G 53/10

with pneumatic injection of the materials by the propelling gas

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

The gas flow inducing feed of the materials by suction effect	B65G 53/14
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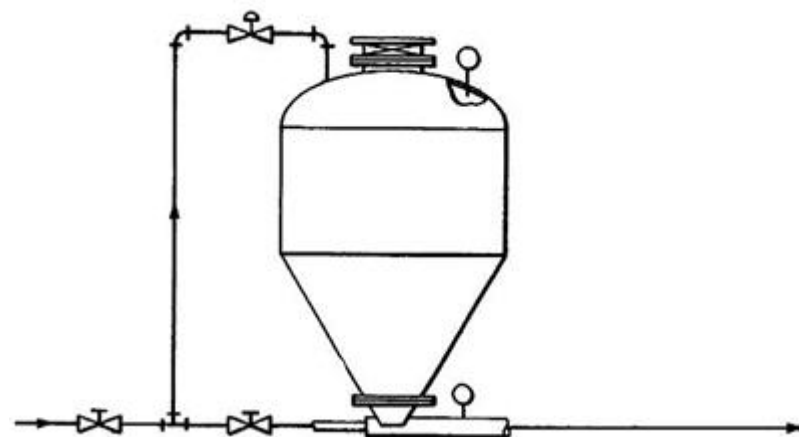
B65G 53/12

the gas flow acting directly on the materials in a reservoir

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



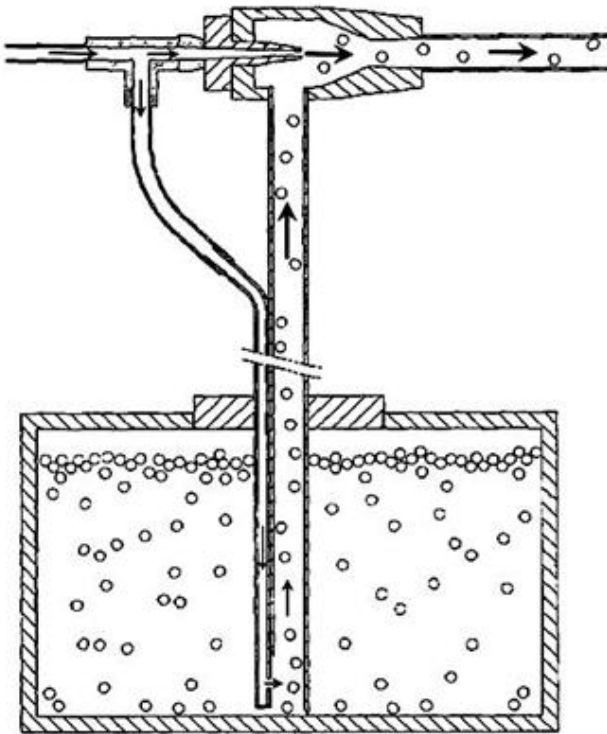
B65G 53/14

the gas flow inducing feed of the materials by suction effect

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

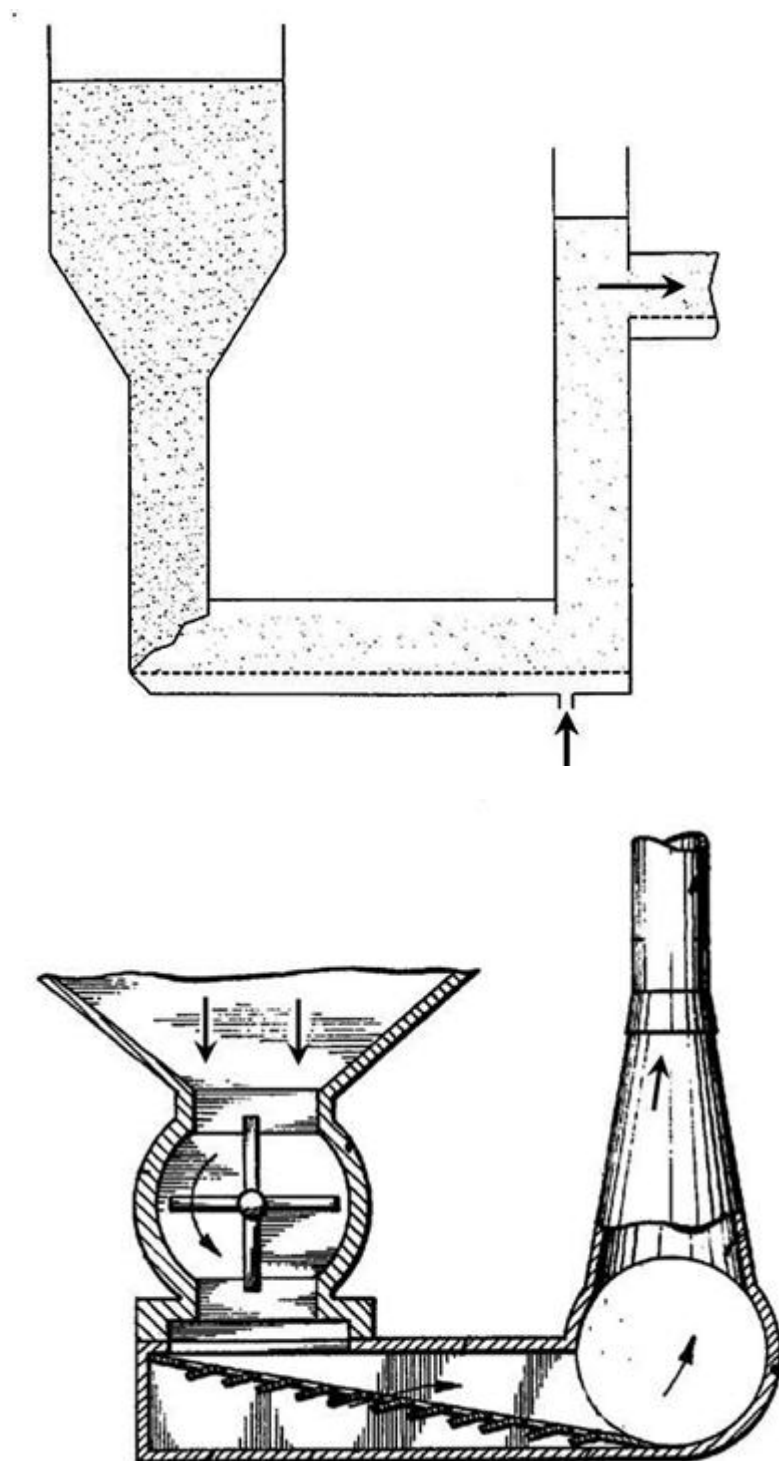
Attention is drawn to the following places, which may be of interest for search:

With pneumatic injection of the materials by the propelling gas	B65G 53/10
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B65G 53/16**Gas pressure systems operating with fluidisation of the materials****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bridge preventing	B65D 88/70
Emptying bunkers	B65D 88/72

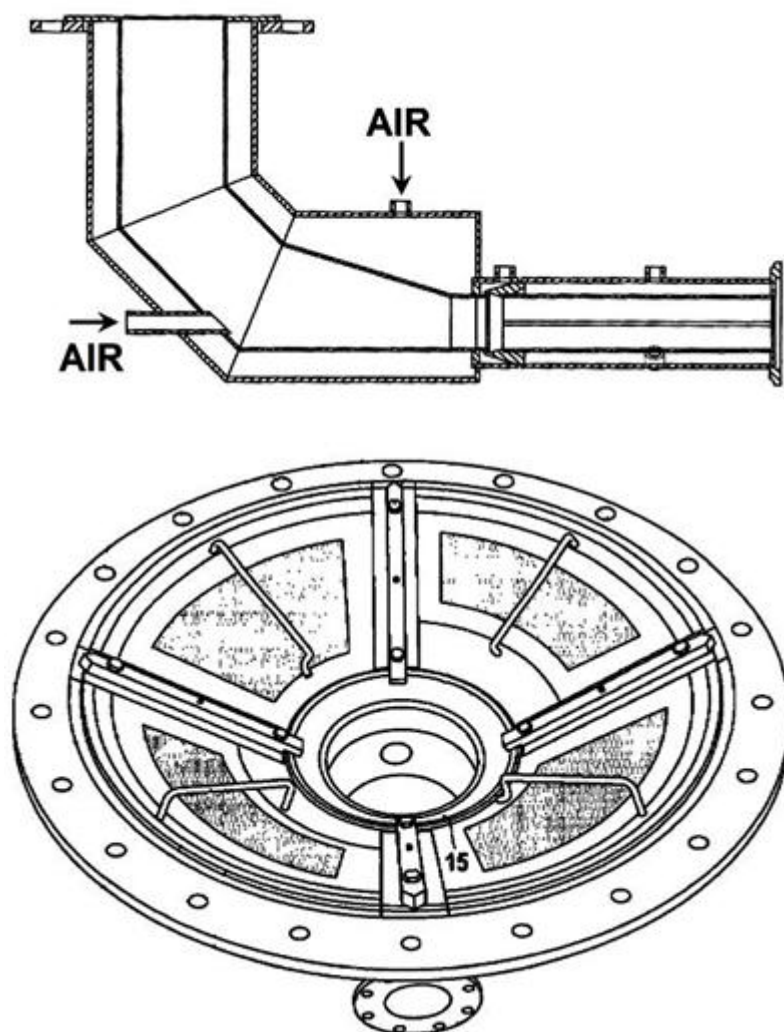
B65G 53/18

through a porous wall

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



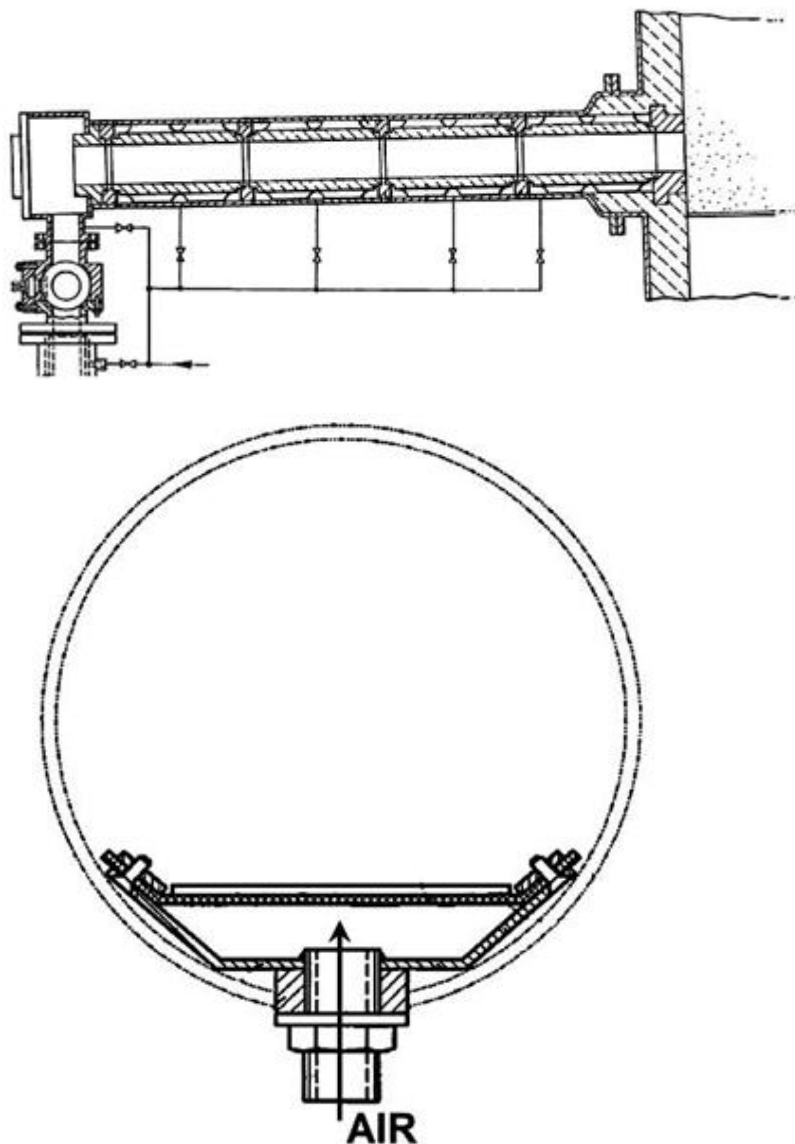
B65G 53/20

of an air slide, e.g. a trough

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 53/22**

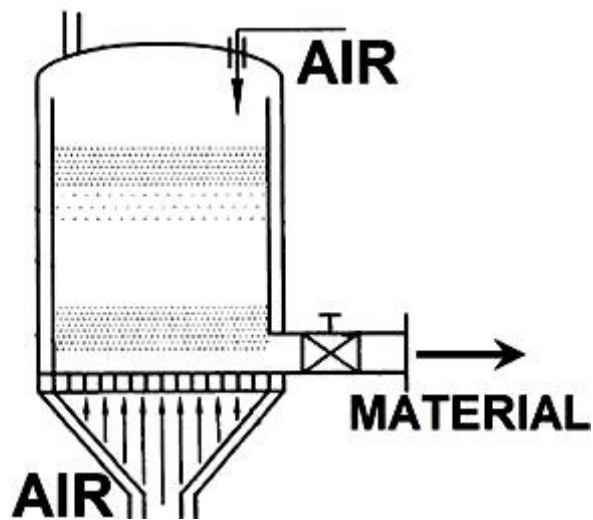
the systems comprising a reservoir, e.g. a bunker

Definition statement

This place covers:

Only when the container is also under pressure

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

When the container is NOT under pressure	B65G 53/18
--	----------------------------

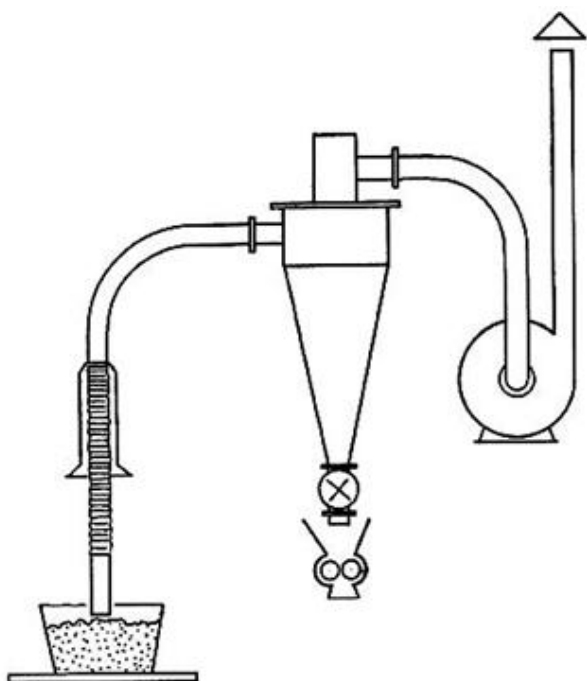
B65G 53/24

Gas suction systems

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Garbage, refuse	B65F 5/005
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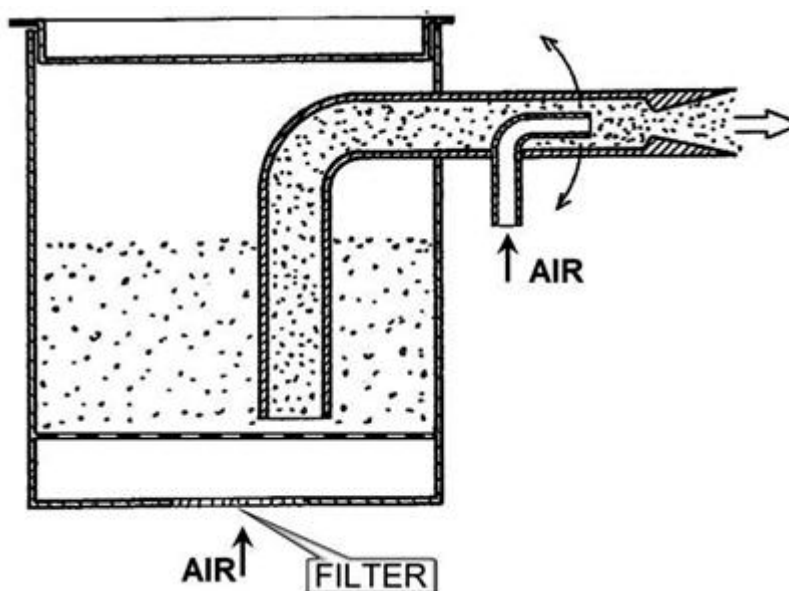
B65G 53/26

operating with fluidisation of the materials

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References*****Informative references***

Attention is drawn to the following places, which may be of interest for search:

Nozzles	B65G 53/42
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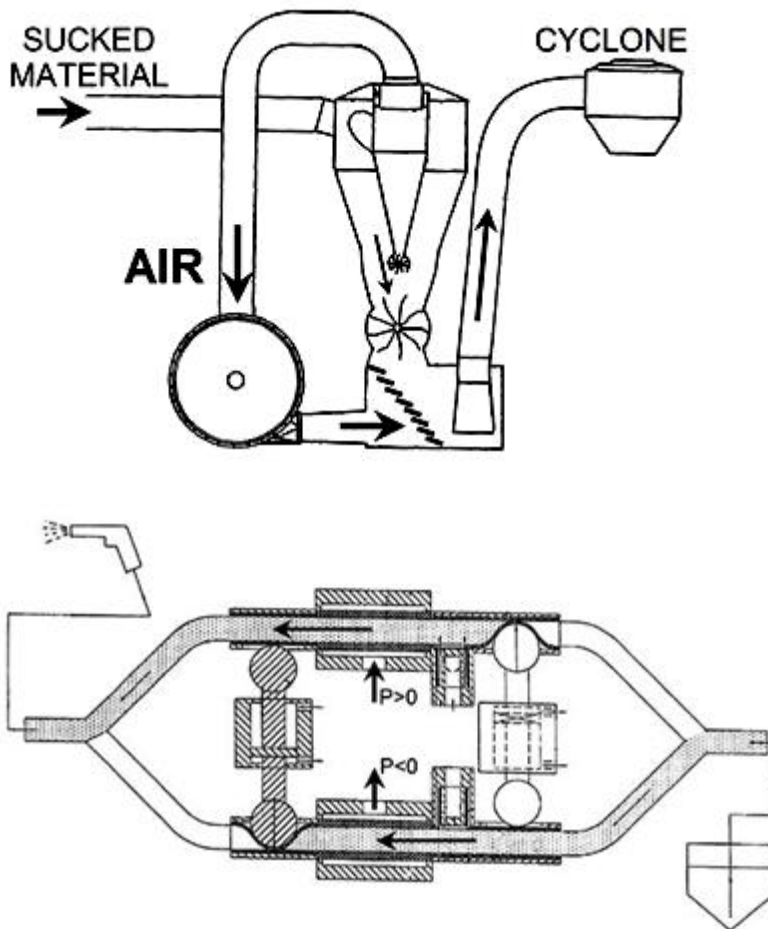
B65G 53/28

Systems utilising a combination of gas pressure and suction (inducing feed of the materials by suction in gas pressure systems [B65G 53/14](#))

Definition statement

This place covers:

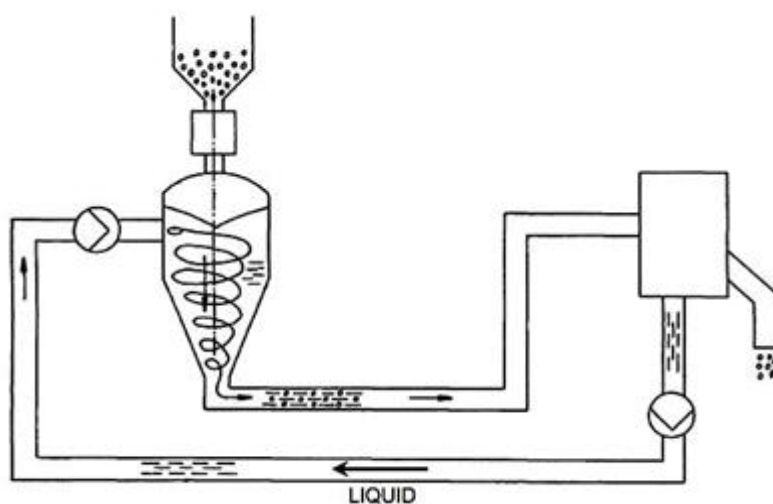
Illustrative example of subject matter classified in this group:



B65G 53/30**Conveying materials in bulk through pipes or tubes by liquid pressure****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Transport of slurry, fish	A01K 63/00
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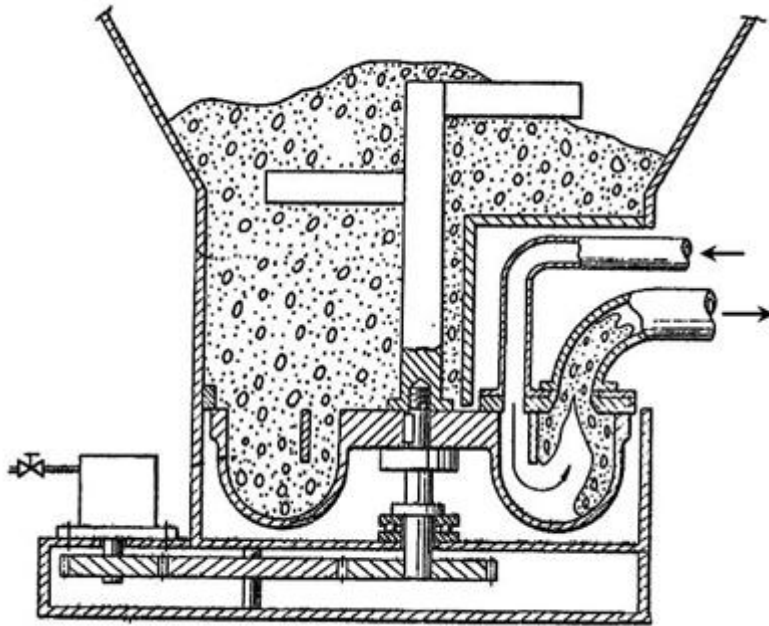
B65G 53/32

Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors [B28C 5/34](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

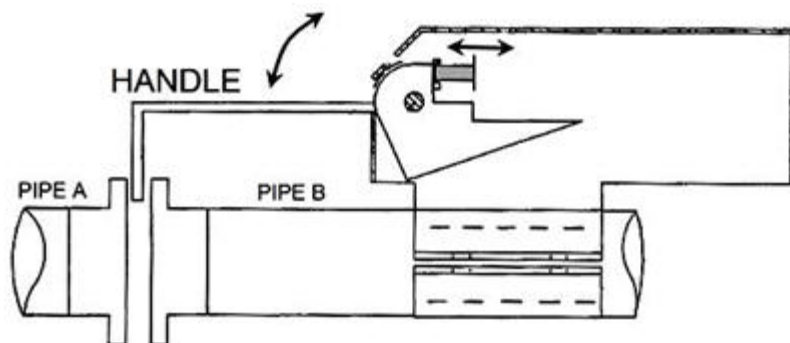
**B65G 53/34****Details****Definition statement**

This place covers:

Details of pneumatic conveying systems for bulk material, examples:

- driving unit for pneumatic conveyors;
- safety means;
- cooling;
- heating;
- cleaning;
- preventing dust;
- noise damping;
- inert gas use;
- etc.

Illustrative example of subject matter classified in this group:



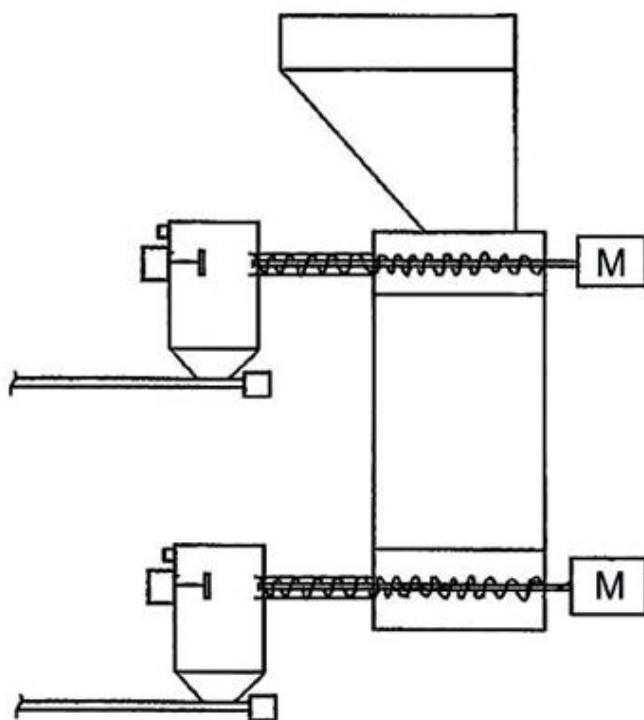
B65G 53/36

Arrangements of containers (hoppers [B65D 3/06](#); containers in general [B65D](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding to the line	B65G 53/4691
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B65G 53/38

Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents [B65D 88/72](#))

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Gas pressure with fluidization	B65G 53/18
Gas suction with fluidization	B65G 53/26

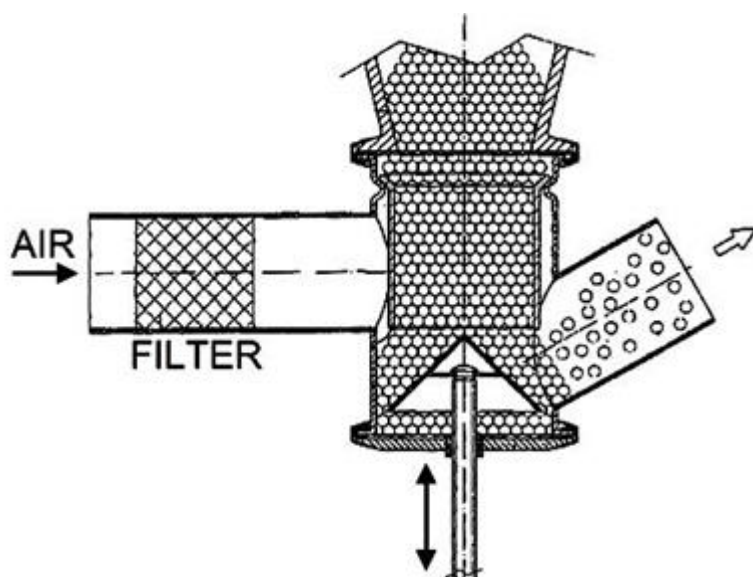
B65G 53/40

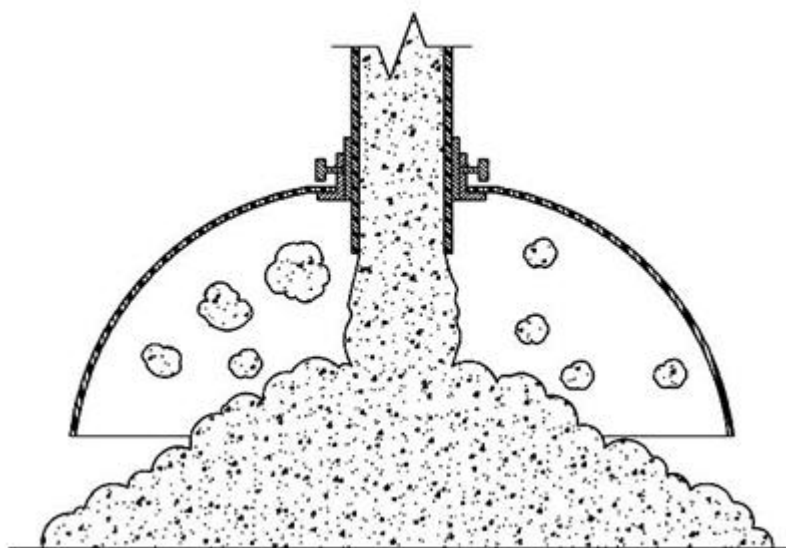
Feeding or discharging devices

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Gate control	B65G 53/46
Pneumatic conveyor control	B65G 53/66
Spreading out	B65G 69/0491

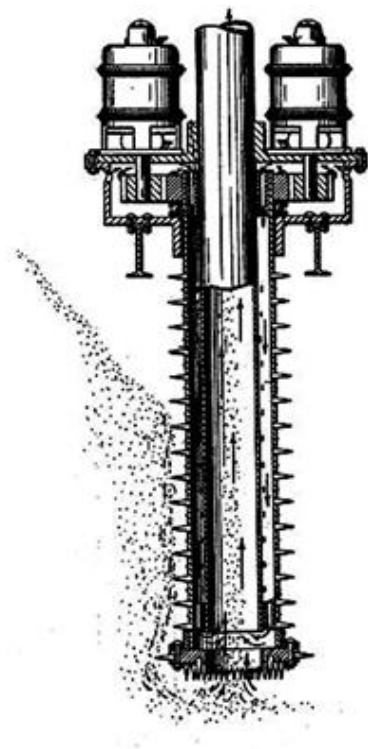
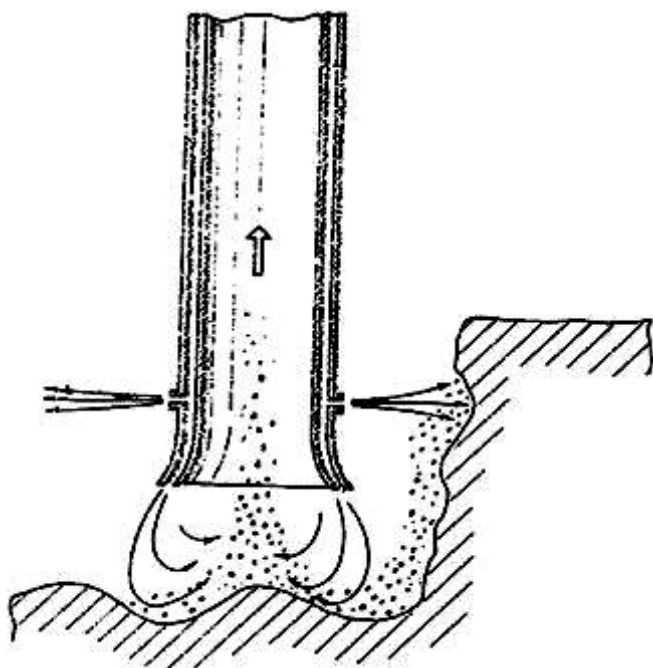
B65G 53/42

Nozzles

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Nozzles in general	B05B
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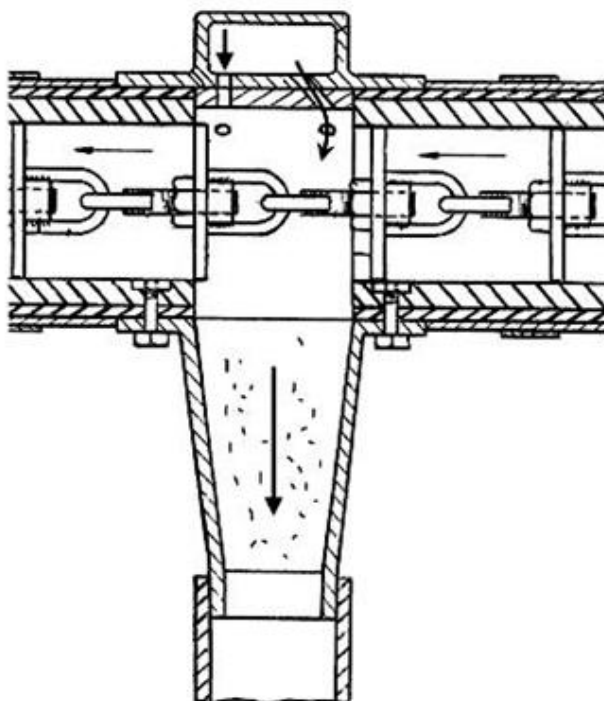
B65G 53/44

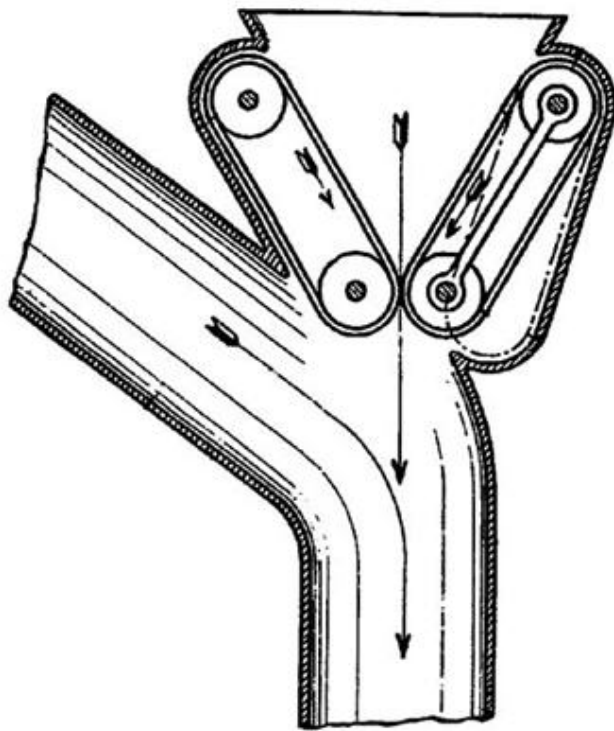
Endless conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





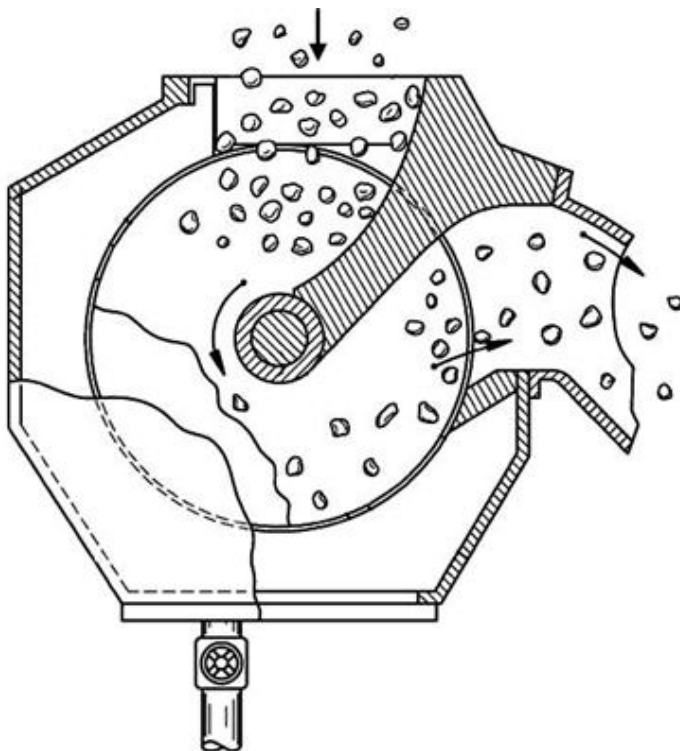
B65G 53/46

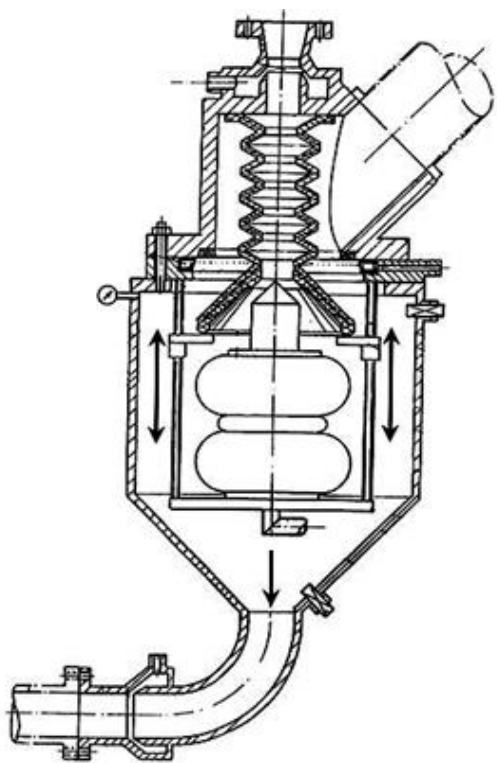
Gates or sluices, e.g. rotary wheels

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





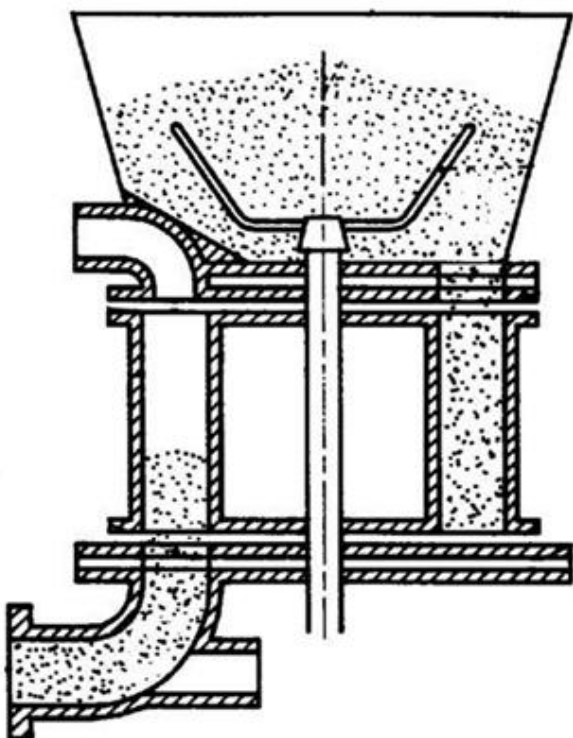
B65G 53/4616

{with axis of turning parallel to flow}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 53/4625

{with axis of turning perpendicular to flow}

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Gates or sluices, e.g. rotary wheels	B65G 53/46
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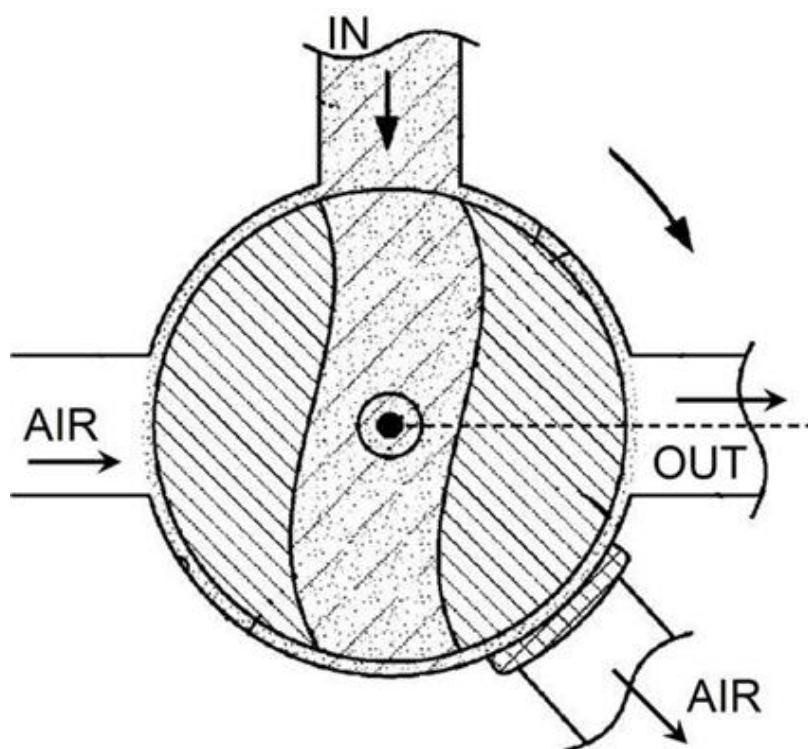
B65G 53/4633

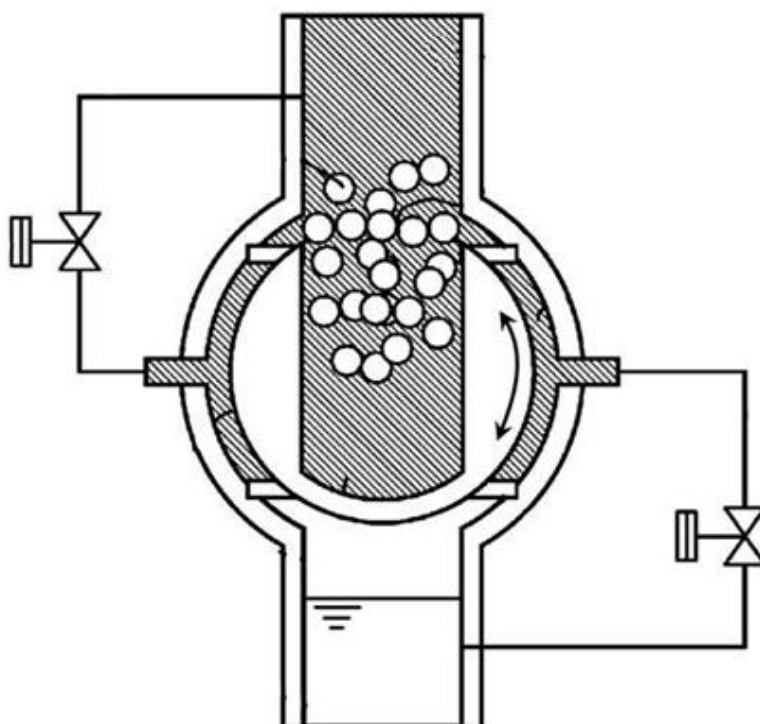
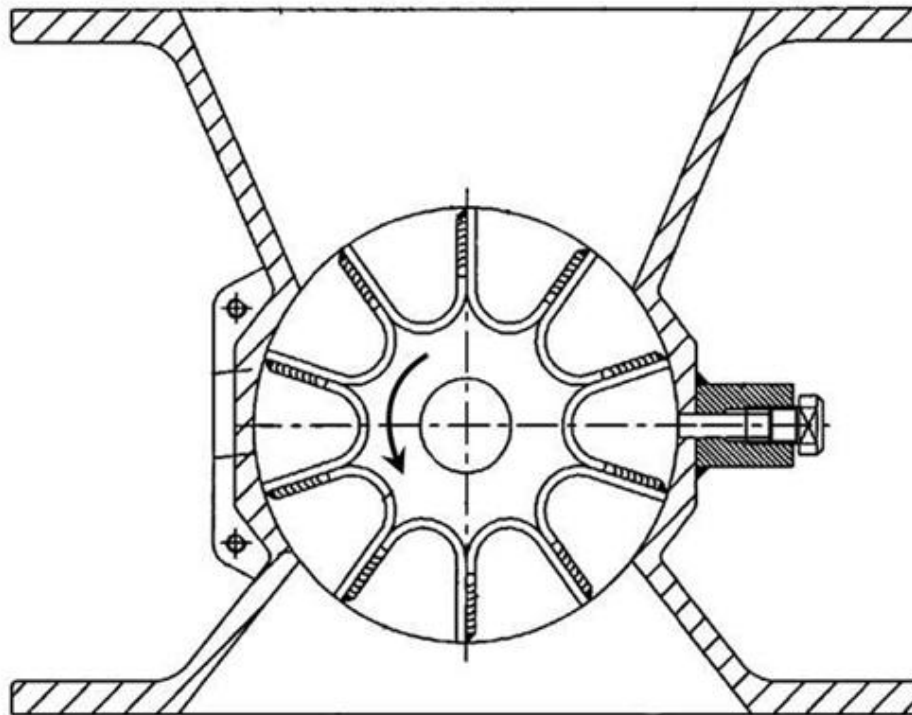
{the element having pockets, rotated from charging position to discharging position, i.e. discrete flow}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





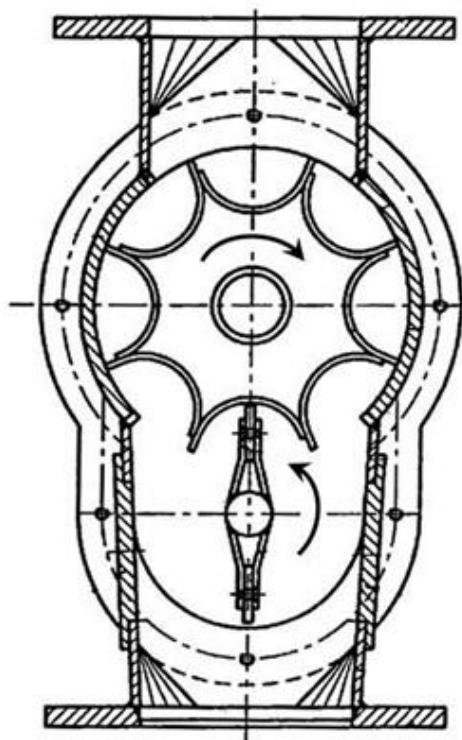
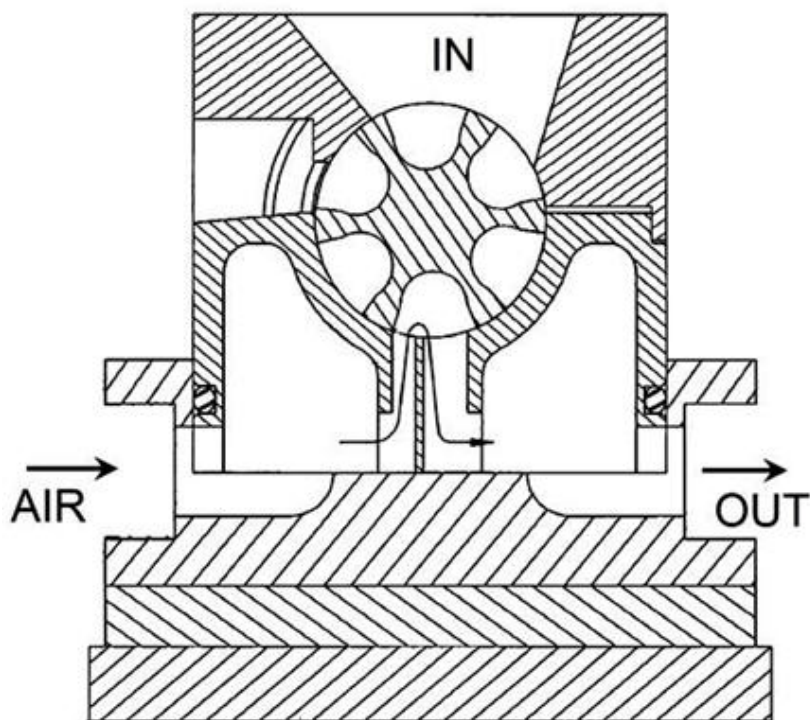
B65G 53/4641

{with means for clearing out the pockets}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



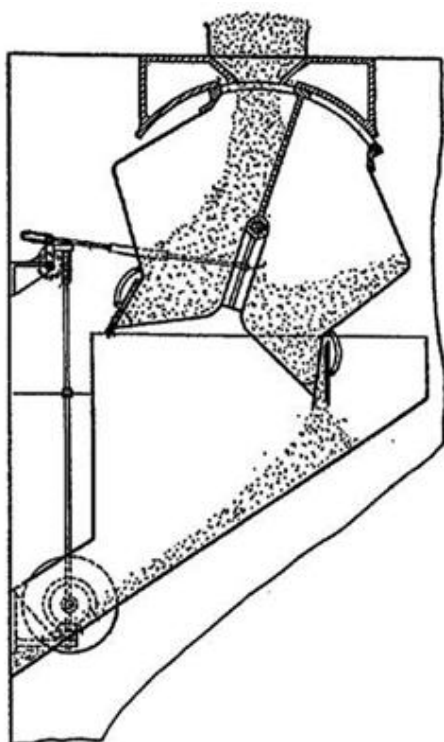
B65G 53/465

{with a closable outlet}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



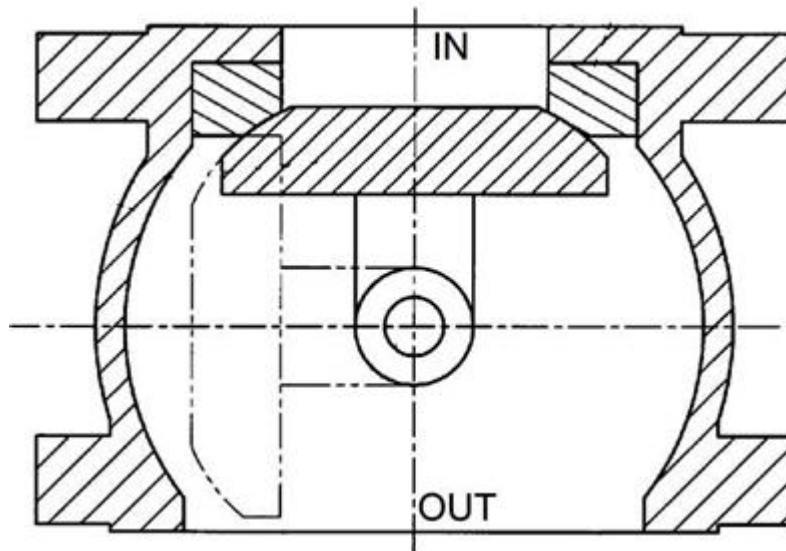
B65G 53/4658

{the element having passages simultaneously connectable to both inlet and outlet ports}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

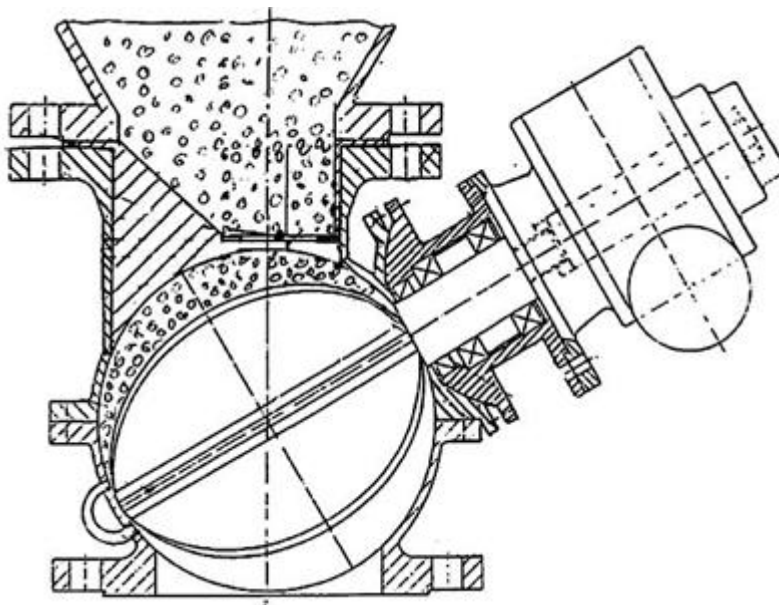
**B65G 53/4666**

{with axis of turning neither parallel nor perpendicular to flow, i.e. mixed flow}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



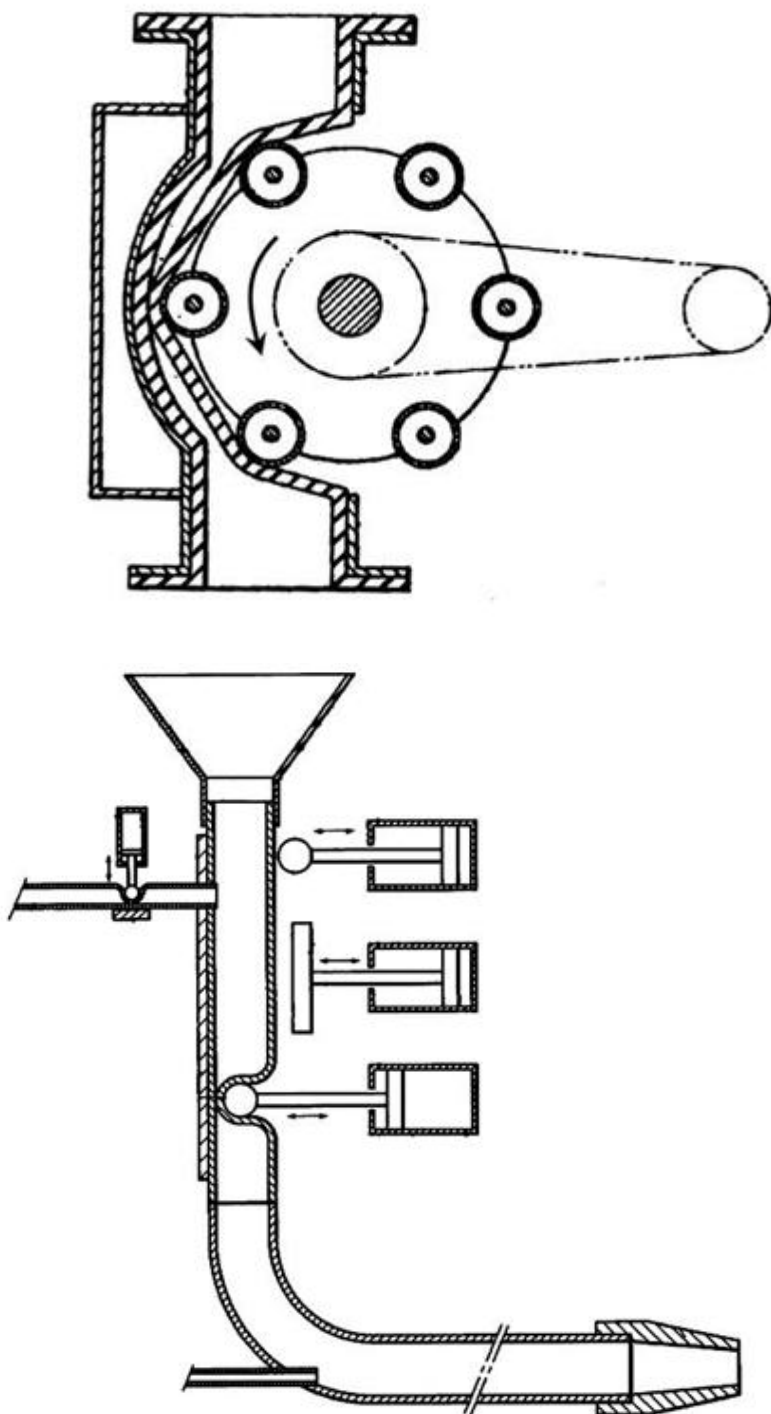
B65G 53/4675

{with flexible wall parts, e.g. peristaltic devices}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 53/4683

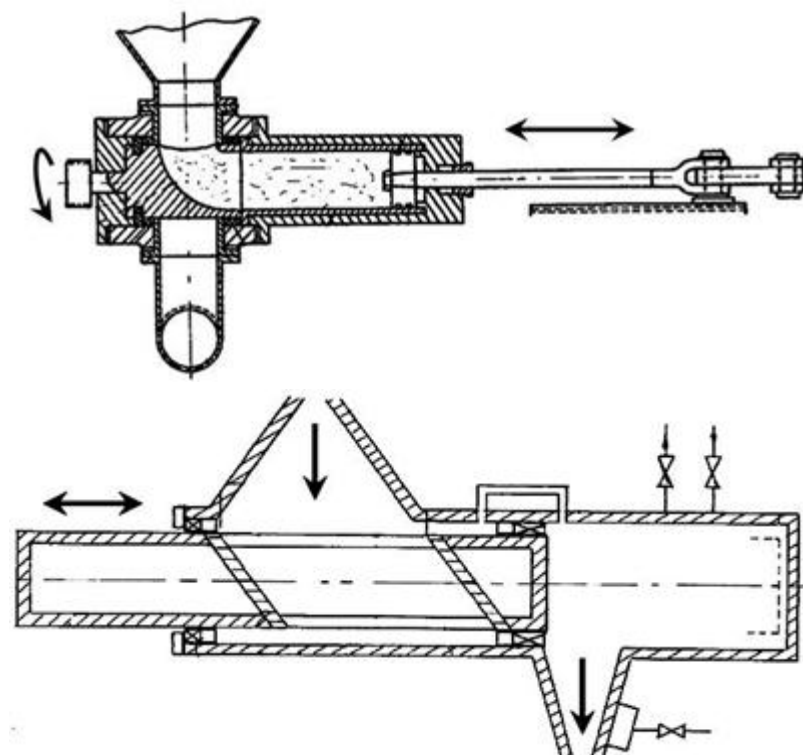
{with a reciprocating mover acting directly on material}

Definition statement

This place covers:

When the material is displaced by the reciprocating device

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Shut-off valve	B65G 53/46
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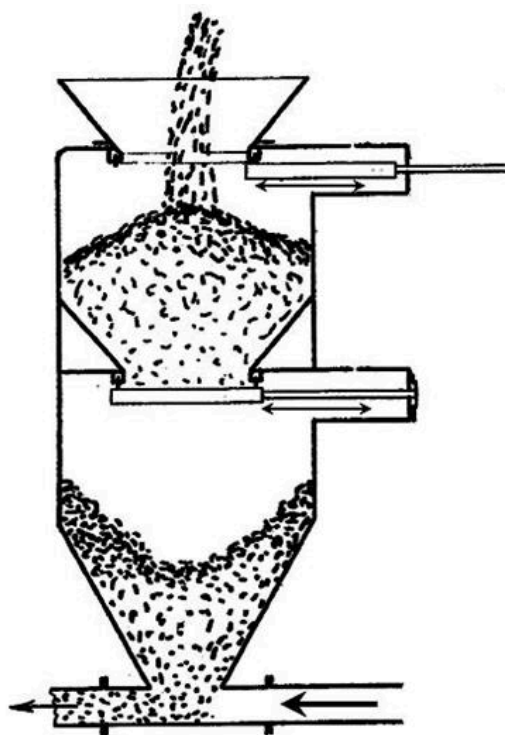
B65G 53/4691

{of air-lock type, i.e. at least two valves opening asynchronously}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Valves	B65G 53/46
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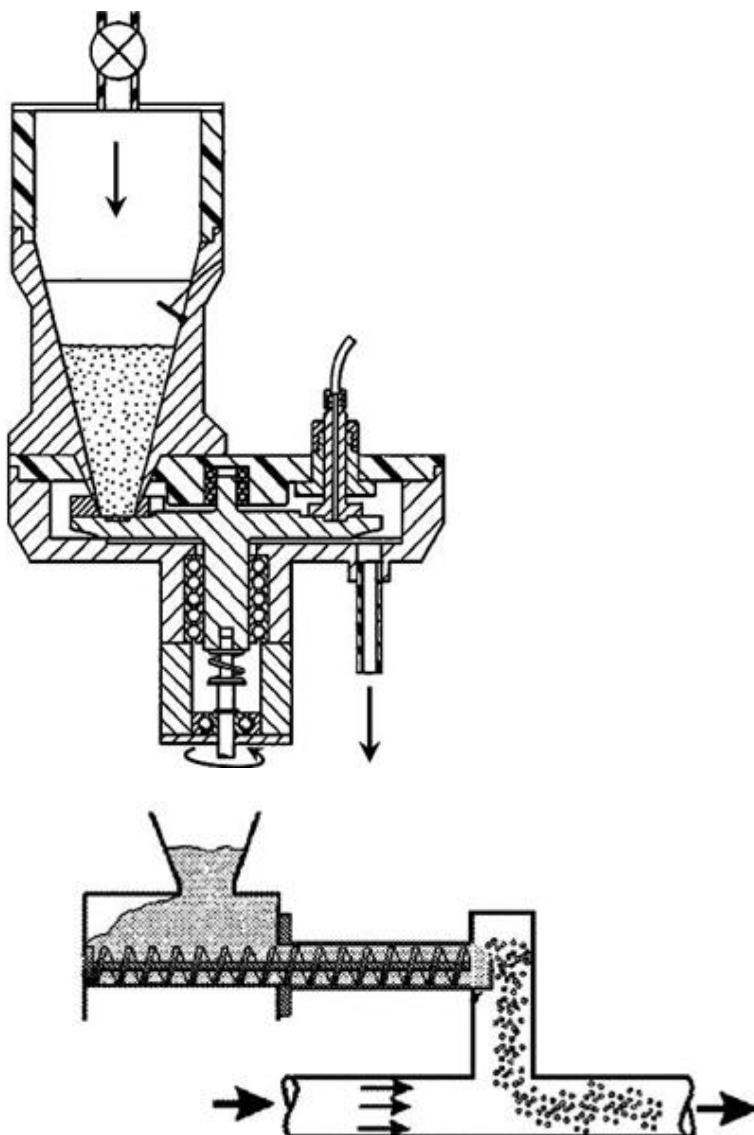
B65G 53/48

Screws or like rotary conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Screw or rotary spiral conveyors	B65G 33/00
With mechanical injection of the materials, e.g. by screw	B65G 53/08
Gates or sluices, e.g. rotary wheels	B65G 53/46

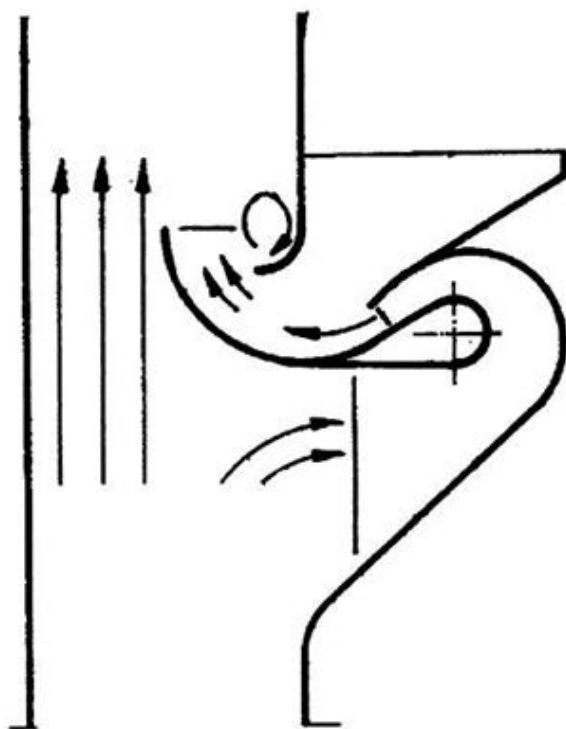
B65G 53/50

Pneumatic devices (incorporated in nozzles [B65G 53/42](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

With pneumatic injection of the materials, e.g. by screw	B65G 53/10
The gas flow inducing feed of the materials by suction effect	B65G 53/14
Nozzles	B65G 53/42

B65G 53/52

Adaptations of pipes or tubes

Definition statement

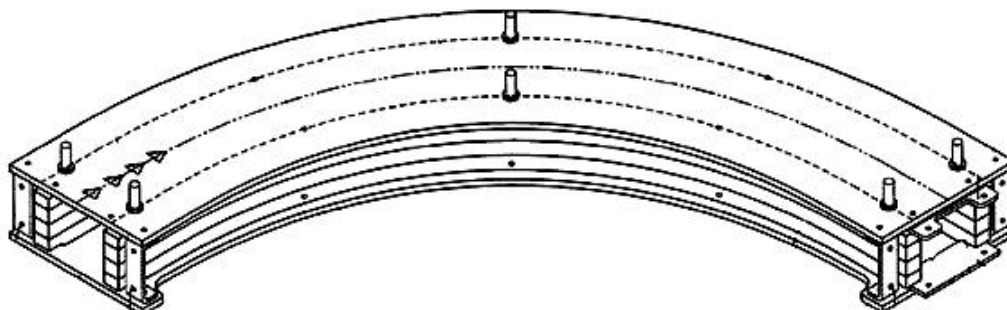
This place covers:

The pipes relate only to pneumatic conveyor and examples are:

- connecting pipes;
- pivoting pipes;
- telescopic pipes;
- etc.

NON pneumatic conveyors

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pipe; joints or fittings for pipes; supports for pipes, cables or protective tubing; means of thermal insulation in general

F16L

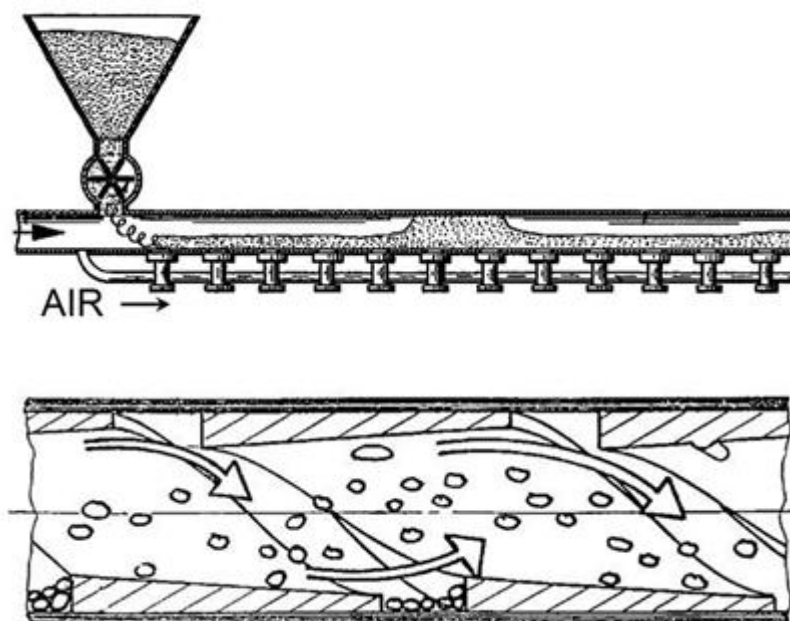
B65G 53/521

{means for preventing the accumulation or for removal of deposits (preventing accumulation in pipes in general [F16L 55/24](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for accelerating or decelerating flow of the materials; use of pressure generators	B65G 53/58
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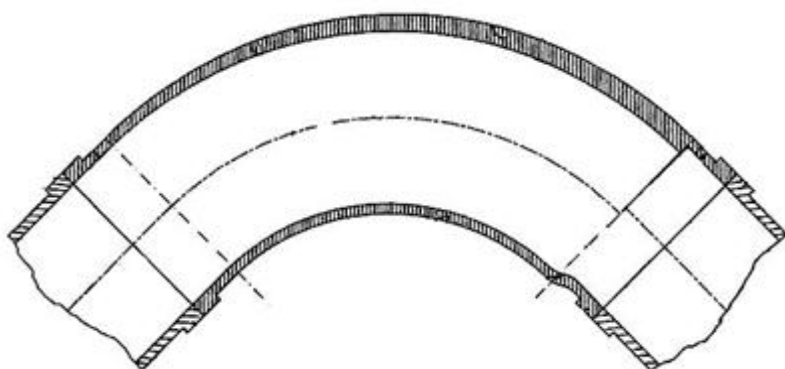
B65G 53/523

{Wear protection}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



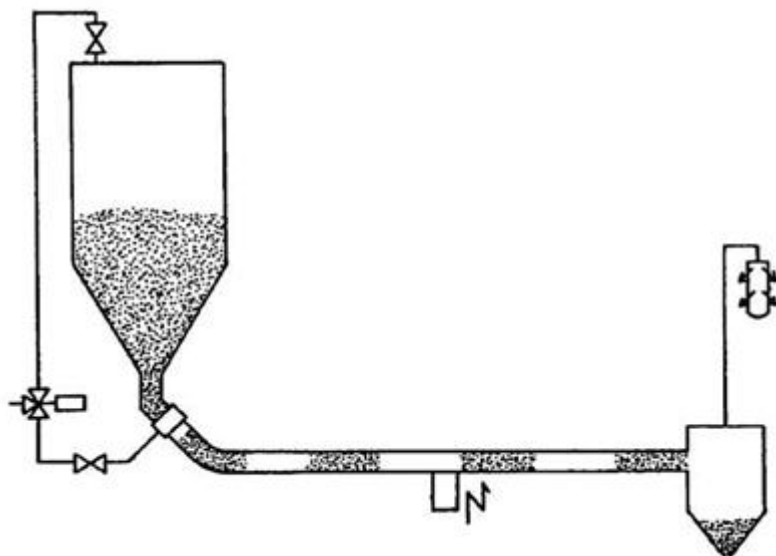
B65G 53/525

{for conveyance in plug-form}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



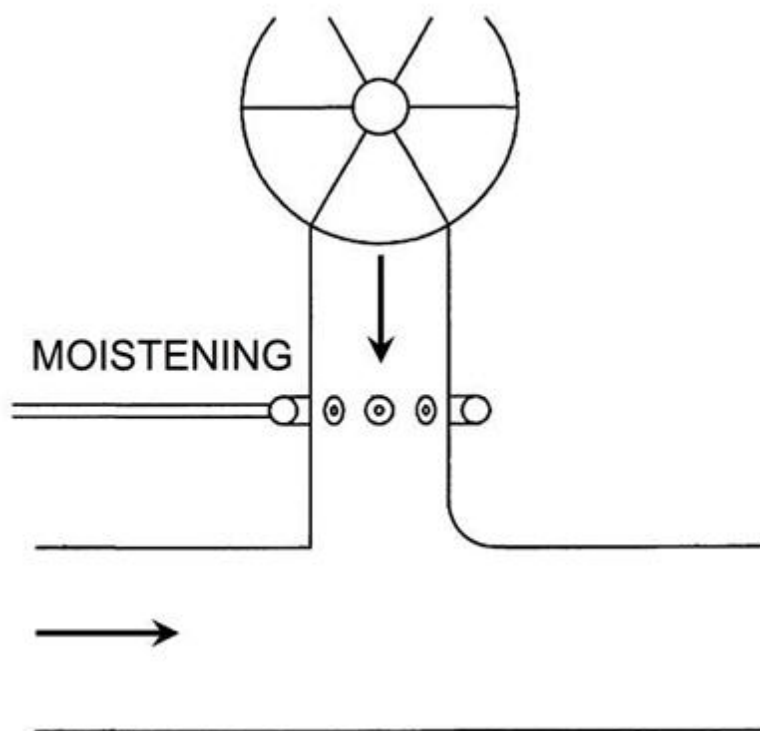
B65G 53/526

{with means for special treatment to facilitate transport}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

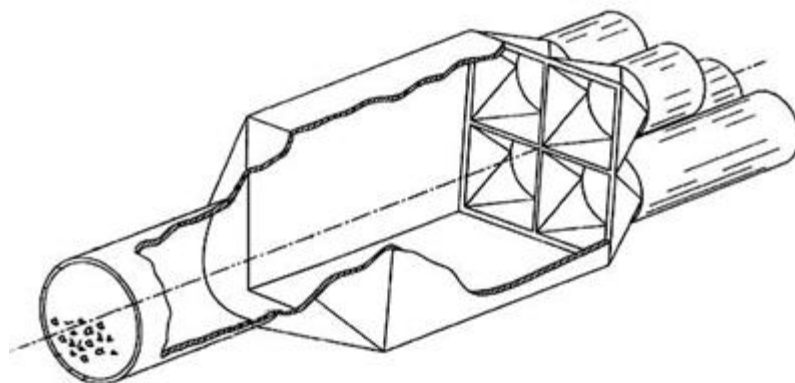
**B65G 53/528**

{Flux combining or dividing arrangements ([B65G 53/56](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Switches	B65G 53/56
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Transferring materials in bulk from one conveyor to several conveyors, or vice versa	B65G 47/72
Fertiliser distributors, seeders	A01C 15/04

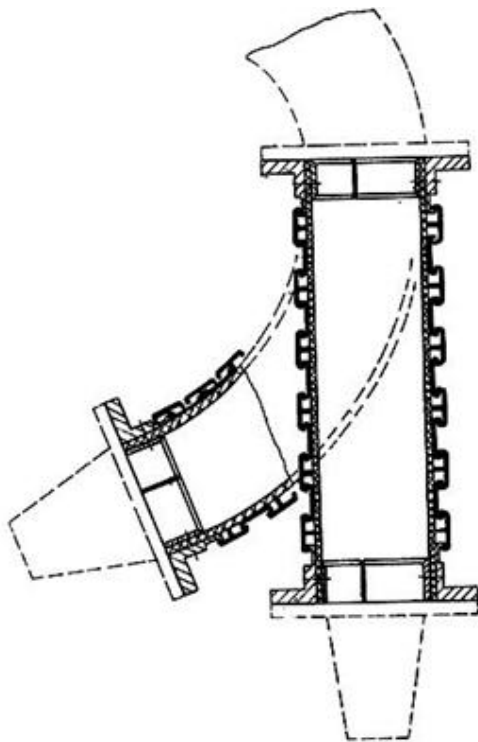
B65G 53/54

Flexible pipes or tubes

Definition statement

This place covers:

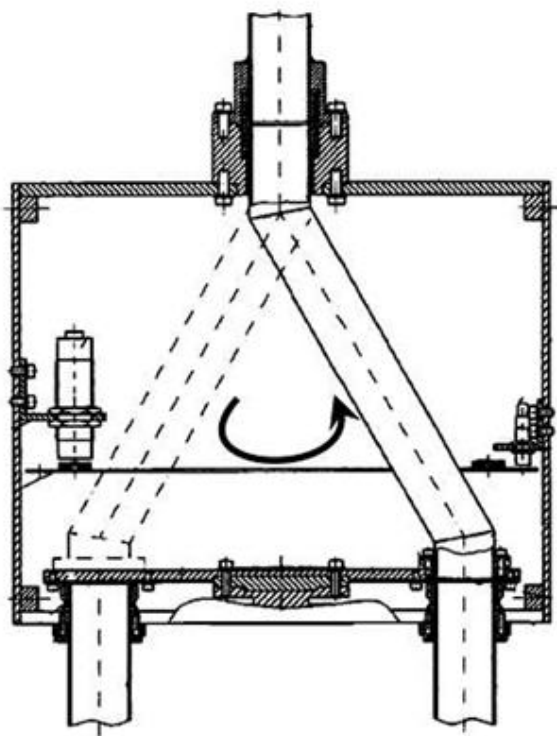
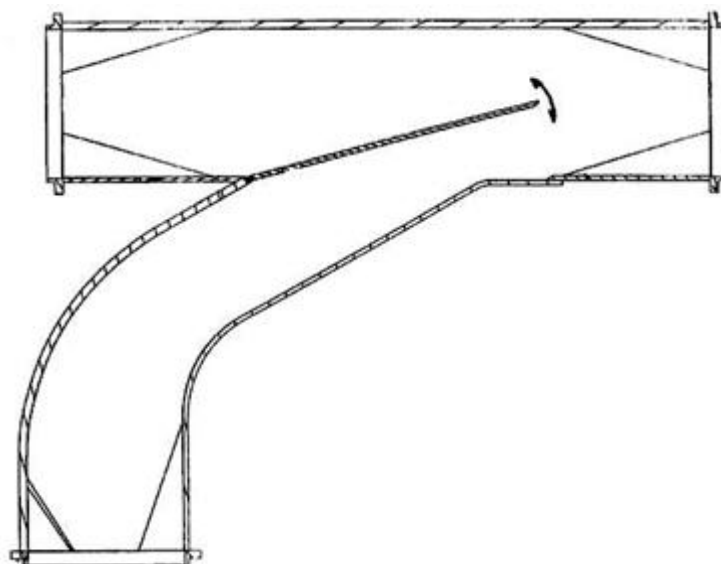
Illustrative example of subject matter classified in this group:



B65G 53/56**Switches****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transferring materials in bulk from one conveyor to several conveyors, or vice versa	B65G 47/72
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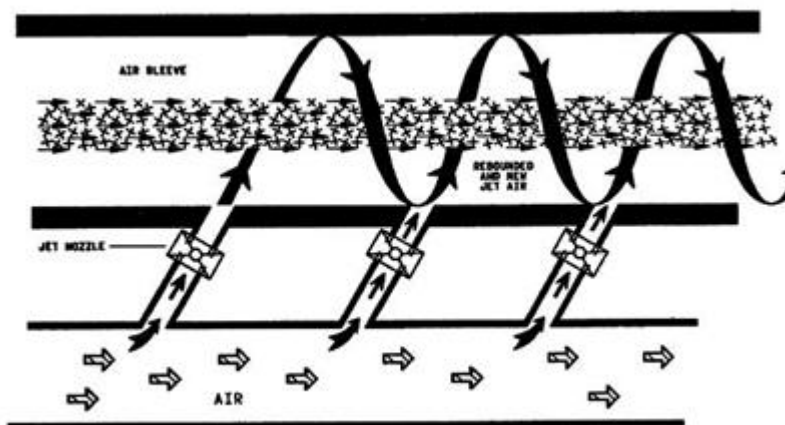
B65G 53/58

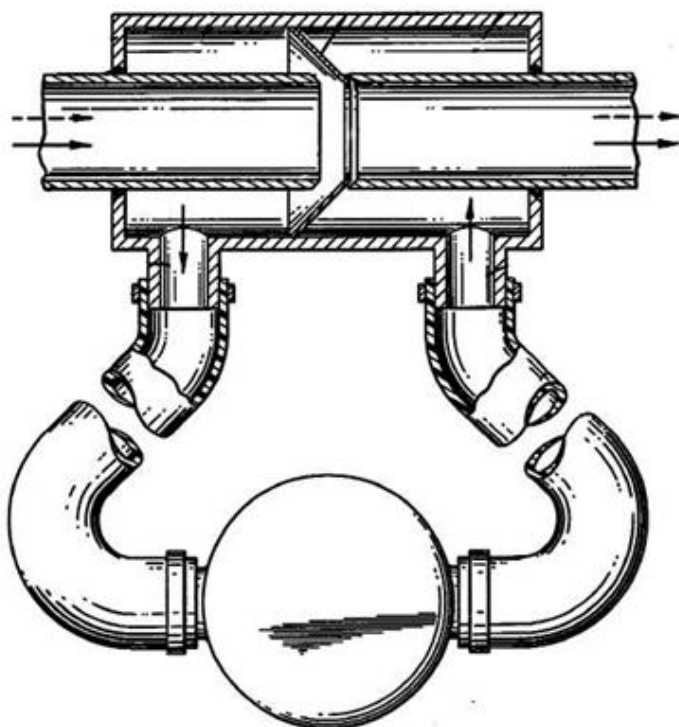
Devices for accelerating or decelerating flow of the materials; Use of pressure generators (controlling pressure of propelling gas [B65G 53/66](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Nozzles	B65G 53/42
Means for preventing the accumulation or for removal of deposits	B65G 53/521

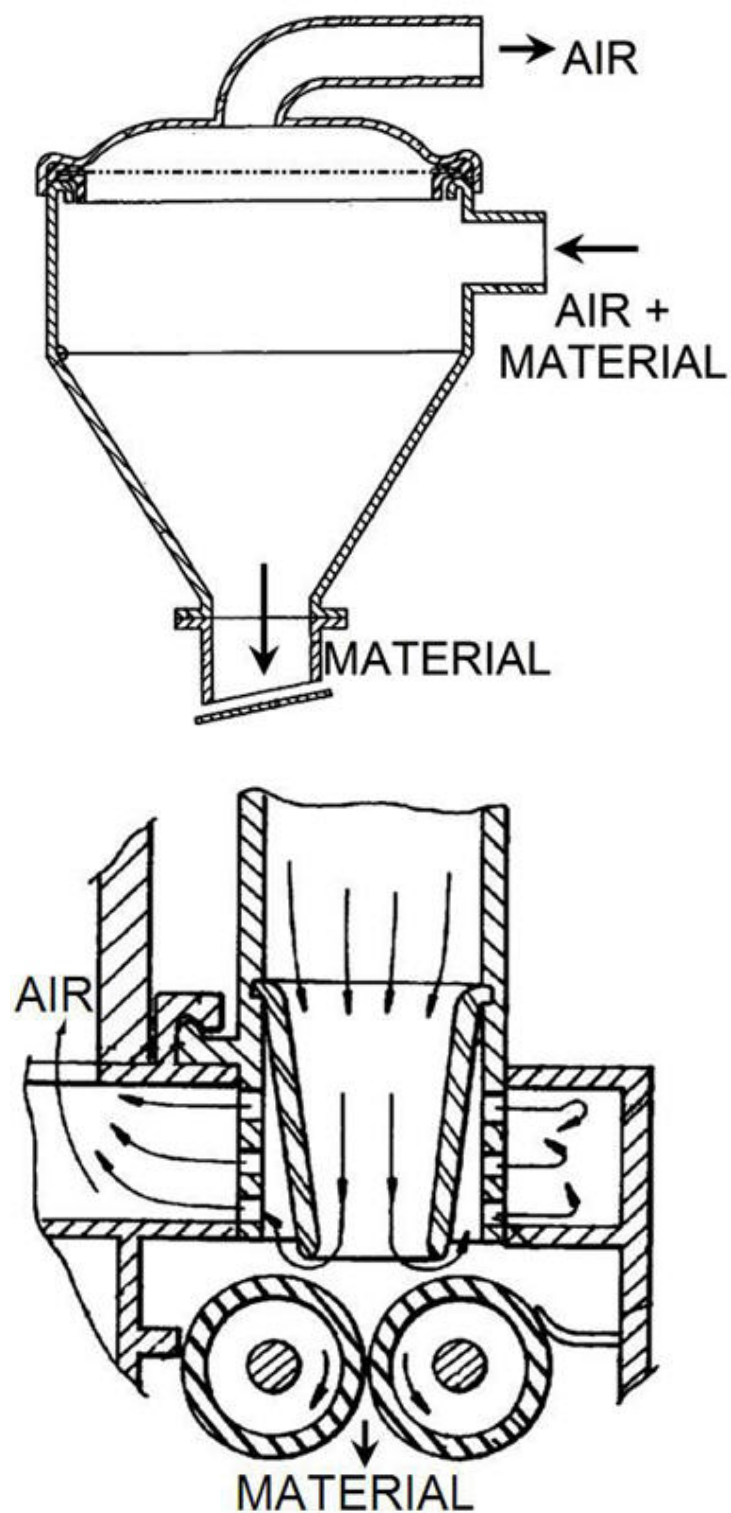
B65G 53/60

Devices for separating the materials from propellant gas

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



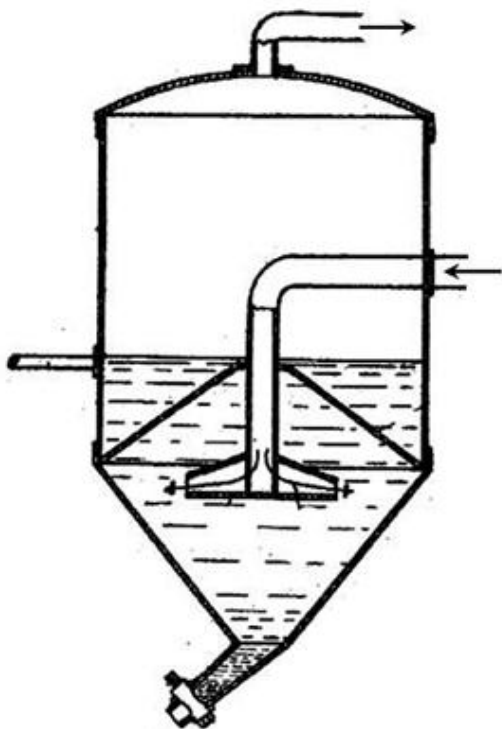
B65G 53/62

using liquid

Definition statement

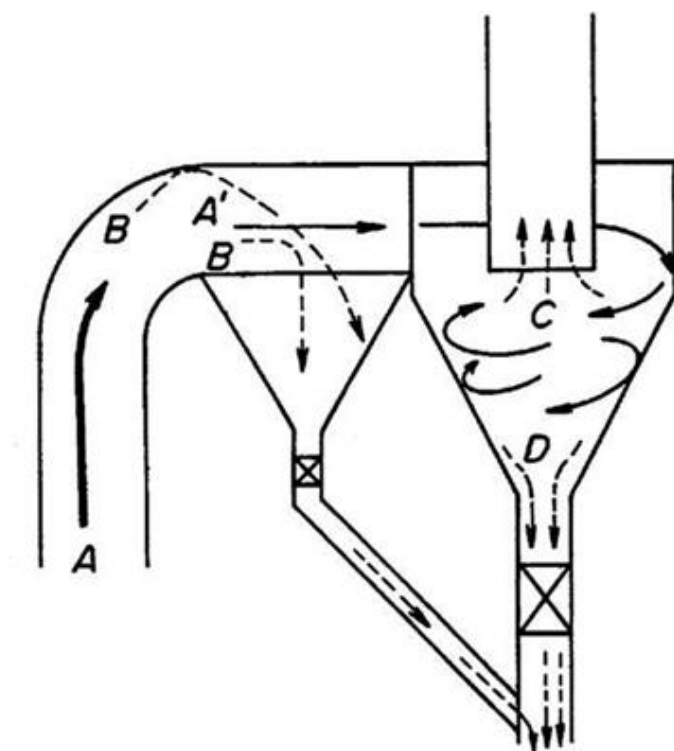
This place covers:

Illustrative example of subject matter classified in this group:



B65G 53/64**in discrete amounts****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Separation of materials with cyclones	B04C
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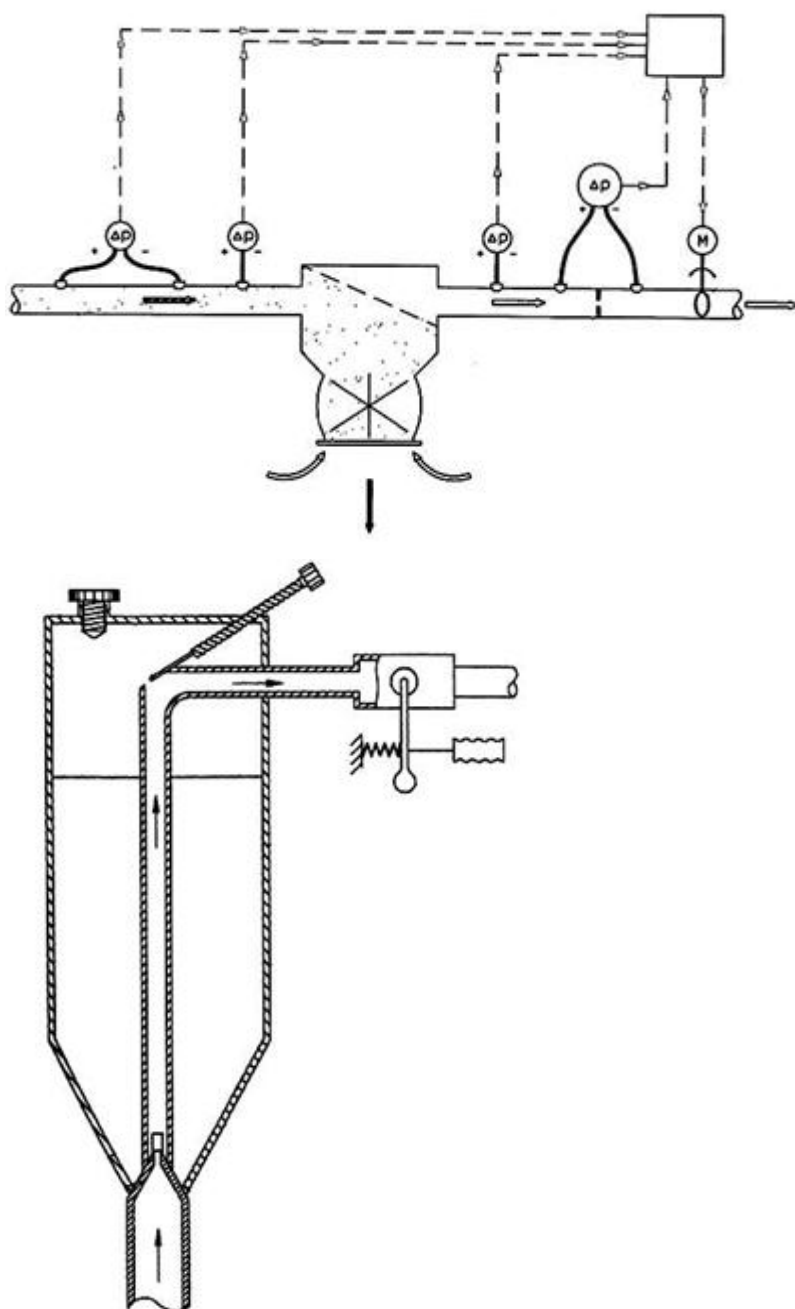
B65G 53/66

Use of indicator or control devices, e.g. for controlling gas pressure, for controlling proportions of material and gas, for indicating or preventing jamming of material {(controlling the flow of coal firing systems [C21B 5/003](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

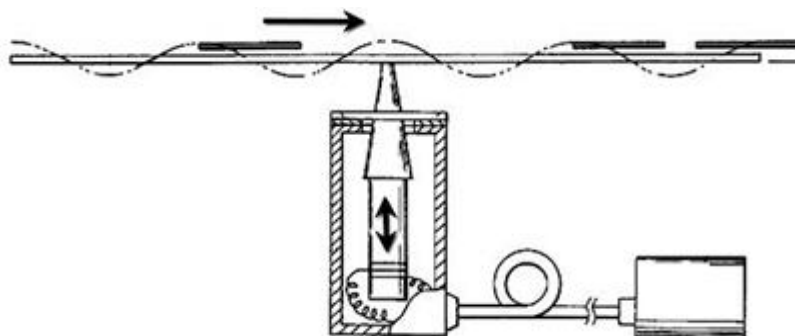


B65G 54/00**Non-mechanical conveyors not otherwise provided for****Definition statement**

This place covers:

Contractless conveying, using light or sound (e.g. ultrasonic) waves

Illustrative example of subject matter classified in this group:

**References****Informative references**

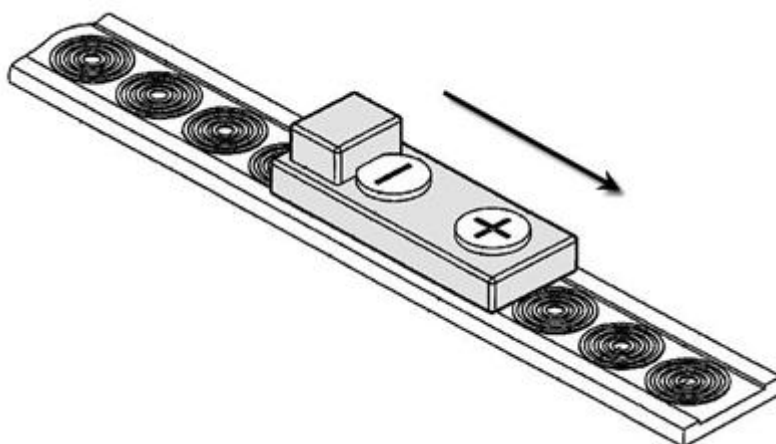
Attention is drawn to the following places, which may be of interest for search:

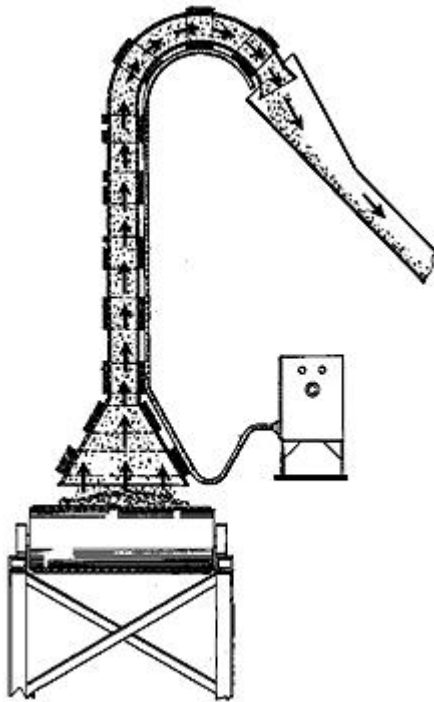
For the driving means	B65G 27/00
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B65G 54/02**electrostatic, electric, or magnetic****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

For driving endless conveyors	B65G 23/23
The magnetic field is moving not the driver	B65G 54/025

B65G 54/025

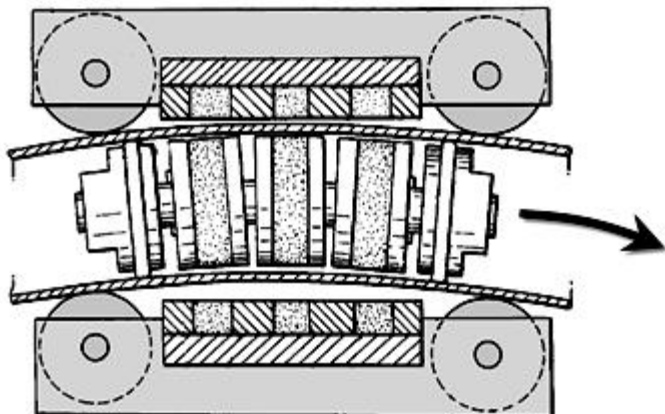
{the load being magnetically coupled with a piston-like driver moved within a tube}

Definition statement

This place covers:

With moving magnetical driver (e.g. permanent magnets moving)

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Magnetic retaining means for retaining the load of the load-carrying surface	B65G 21/2018
Devices for feeding articles or materials to conveyors using suction or magnetic forces	B65G 47/1485

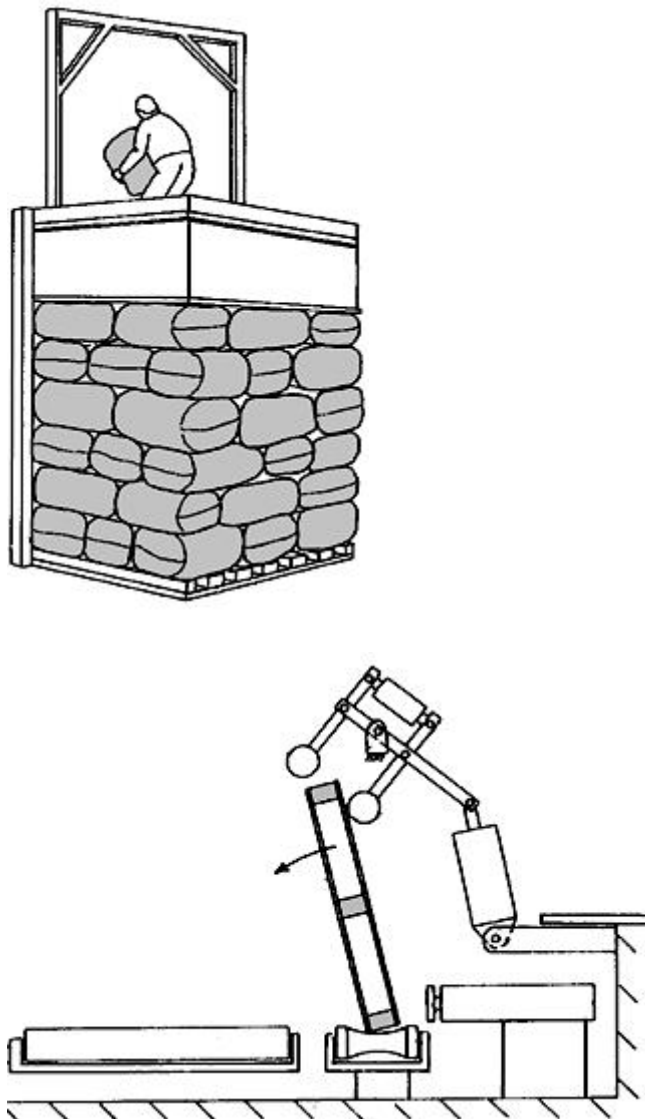
B65G 57/00

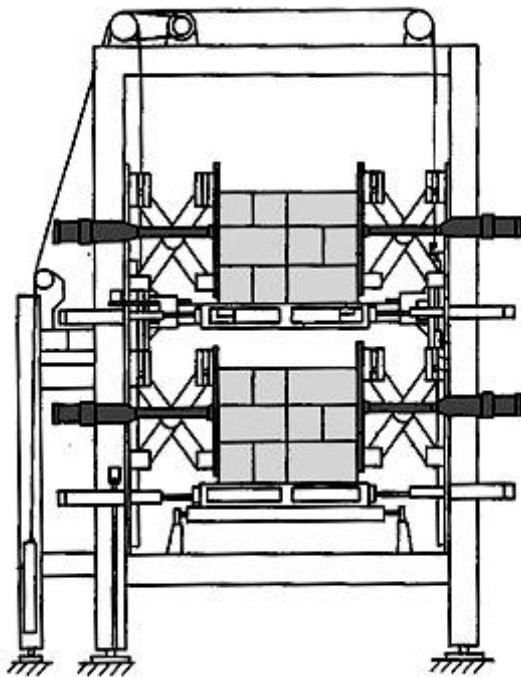
Stacking of articles ([B65G 60/00](#) takes precedence; feeding, piling or stacking sheets [B65H](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Simultaneously or alternatively stacking and de-stacking of articles	B65G 60/00
Feeding, piling or stacking sheets	B65H

Informative references

Attention is drawn to the following places, which may be of interest for search:

Handling of (empty) pallets, stacking frames, stacking manually, aligning the stack, shape or form of stack	B65G 1/00
Glass sheets	B65G 49/068
Stacking devices	B65G 2814/0304
Adding to the top	B65G 2814/0305
Loading platform being lowered during stacking	B65G 2814/0307
Stacking of jumbo rolls	B41F
Wrapping a stack	B65B 11/00
Stacking one article, or group of articles in groups	B65B 35/50
Stackable containers	B65D
Stacking of coins	G07D 9/06

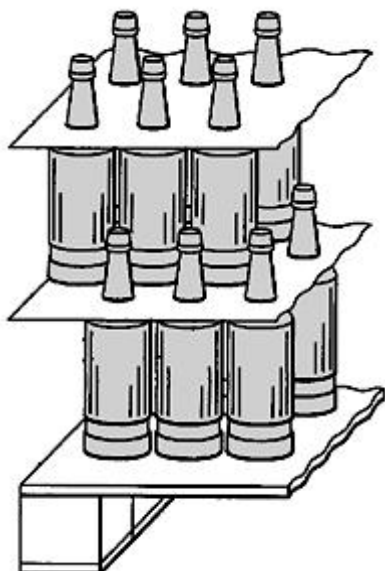
B65G 57/005

{by using insertions or spacers between the stacked layers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

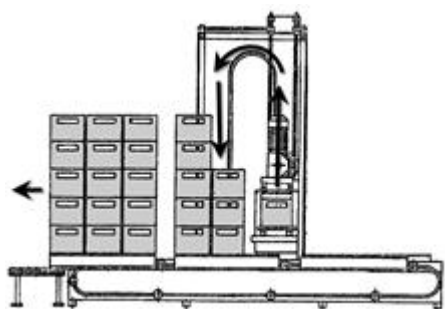
**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

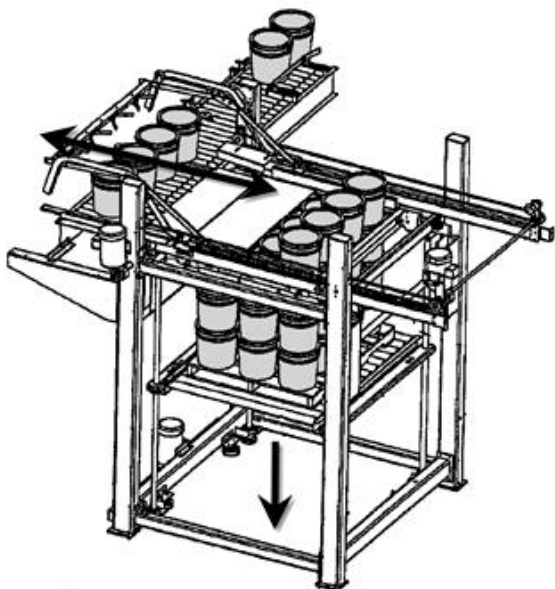
Inserting partitions between package contents	B65B 61/207
Trays provided with projections or recesses in order to assemble multiple articles	B65D 71/70
Use and construction of spacers	F26B 25/185

B65G 57/03**from above****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 57/035****{with a stepwise downward movement of the stack}****Definition statement***This place covers:*

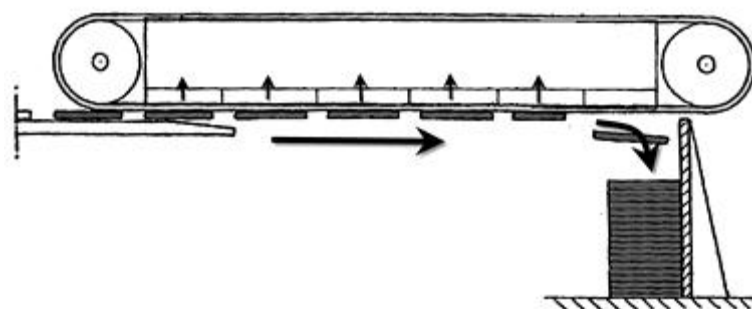
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

The articles being stacked by direct action of the feeding conveyor	B65G 57/11
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B65G 57/04**by suction or magnetic devices****Definition statement***This place covers:*

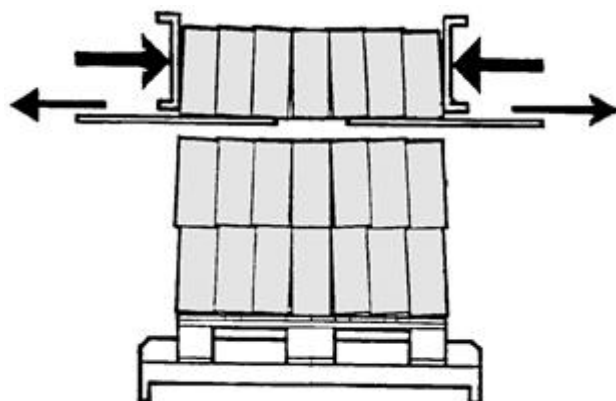
Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Magnetic load-carriers	B65G 21/2018
Suction	B65G 21/2036
For steel sheets	B21D 43/22

B65G 57/06**Gates for releasing articles****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

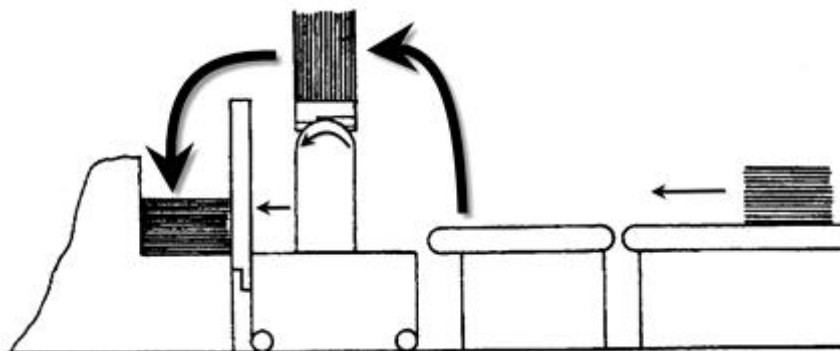


B65G 57/08

articles being tilted or inverted prior to depositing

Definition statement

This place covers:

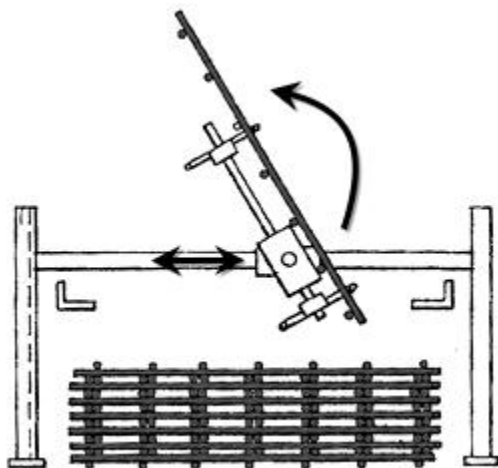
**B65G 57/081**

alternate articles being inverted

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 57/10**

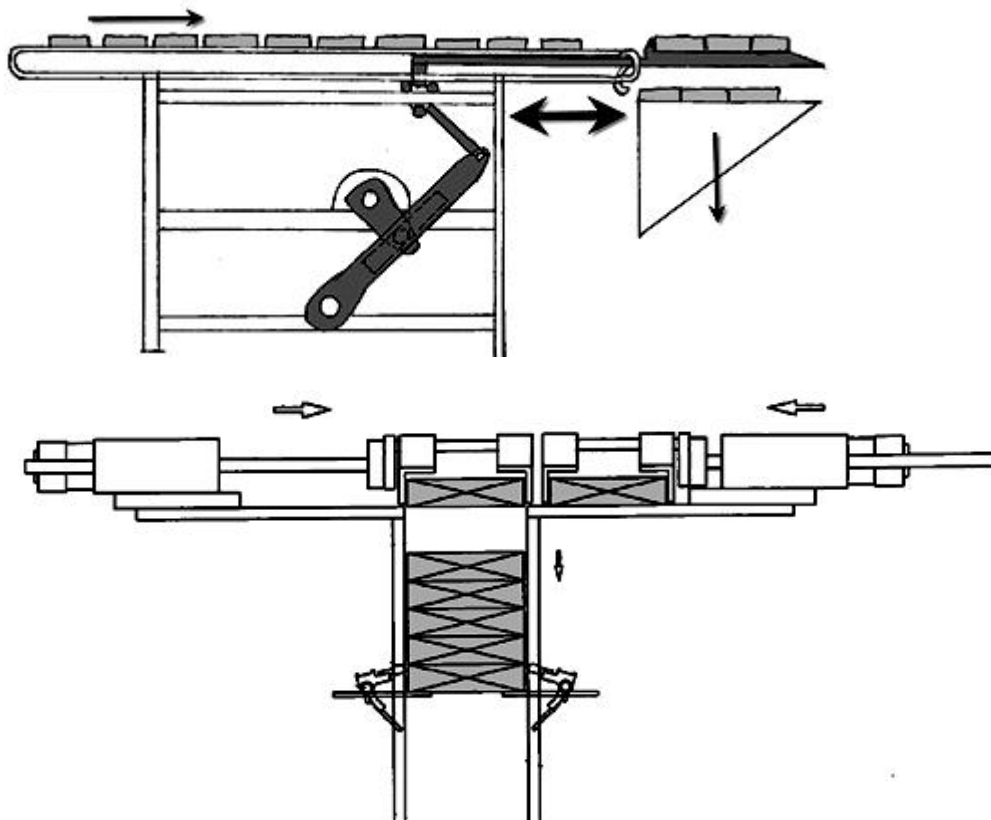
by devices, e.g. reciprocating, acting directly on articles for horizontal transport to the top of stack

Definition statement

This place covers:

Additionally to the feeding conveyor, a transfer device is provided to bring the article(s) on top of the stack

Illustrative example of subject matter classified in this group:



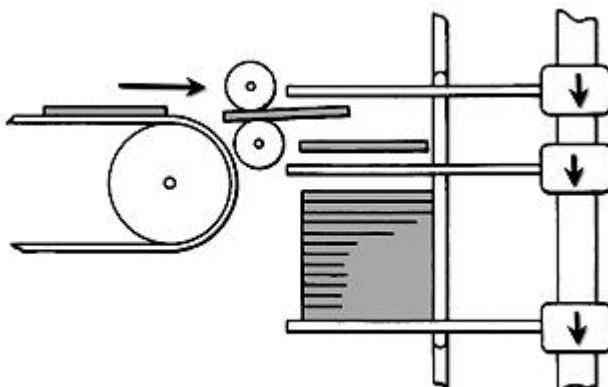
B65G 57/11

the articles being stacked by direct action of the feeding conveyor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



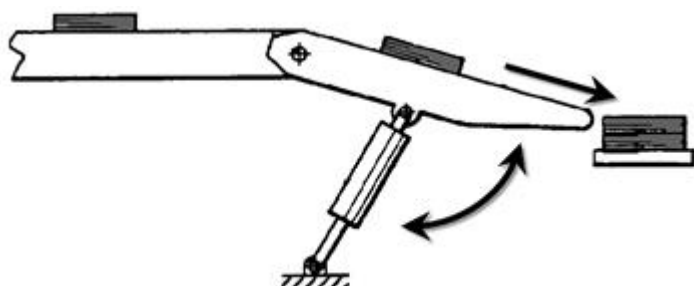
B65G 57/112

the conveyor being adjustable in height

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

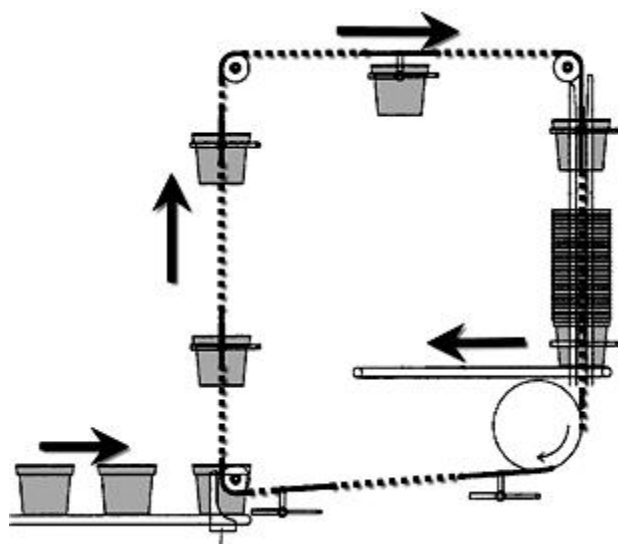
**B65G 57/14**

the articles being transferred from carriers moving in an endless path adjacent to the stacks

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

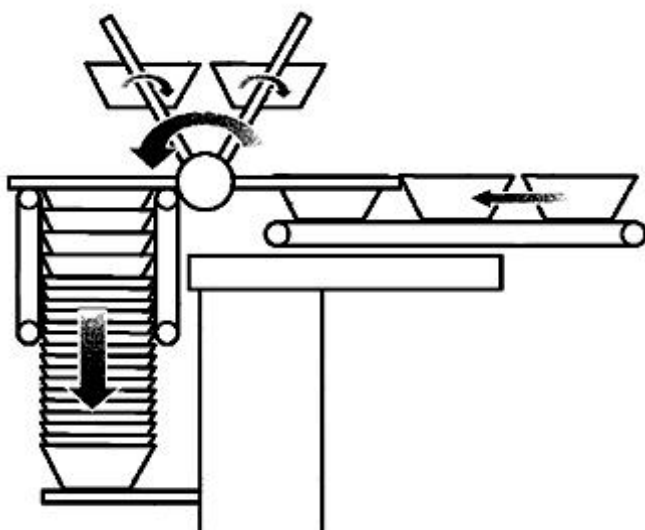
Conveyor constructions	B65G 15/00 - B65G 35/00
Combinations of conveyors	B65G 37/00
Grouping articles in rows	B65G 47/082

B65G 57/165

{nested}

Definition statement*This place covers:*

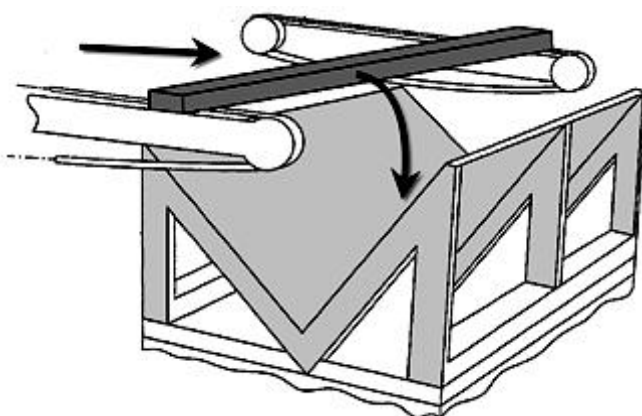
Illustrative example of subject matter classified in this group:

**B65G 57/18**

elongated, e.g. sticks, rods, bars

Definition statement*This place covers:*

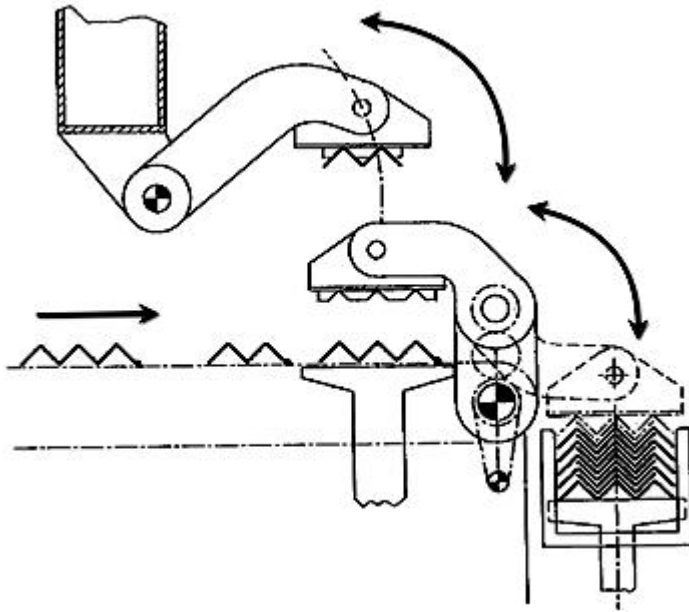
Illustrative example of subject matter classified in this group:

**References****Limiting references***This place does not cover:*

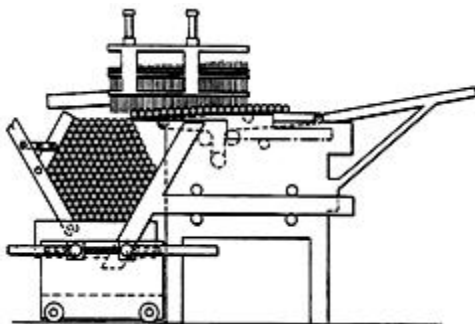
Cylindrical articles	B65G 57/186
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B65G 57/183**{Angle irons}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 57/186****{Cylindrical articles, e.g. tubes, rods, etc.}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Elongated, e.g. sticks, rods, bars

[B65G 57/18](#)

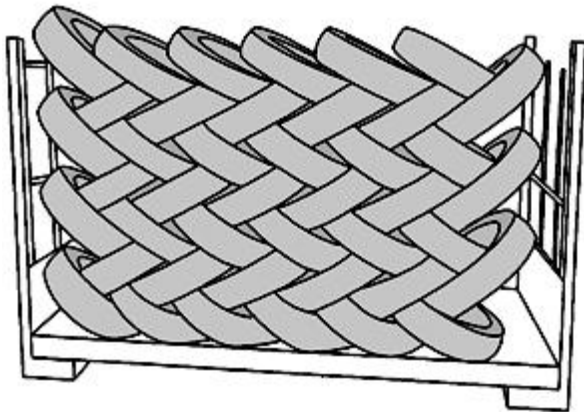
B65G 57/20

three-dimensional [3D], e.g. cubiform or cylindrical

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Reducing volume of filled material	B65B 1/24
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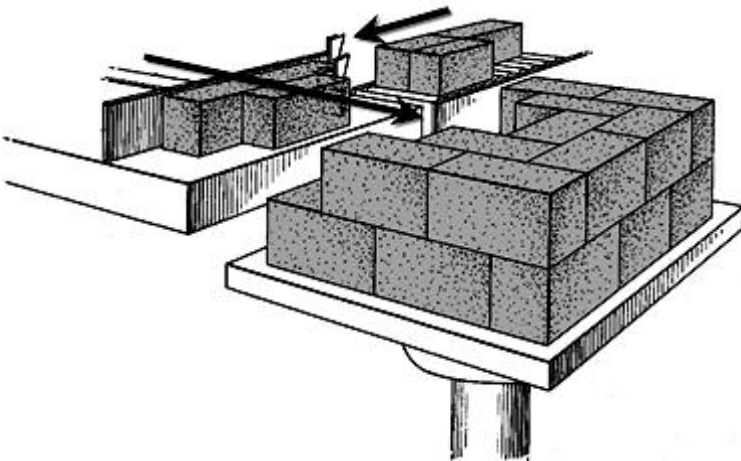
B65G 57/22

in layers each of predetermined arrangement

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



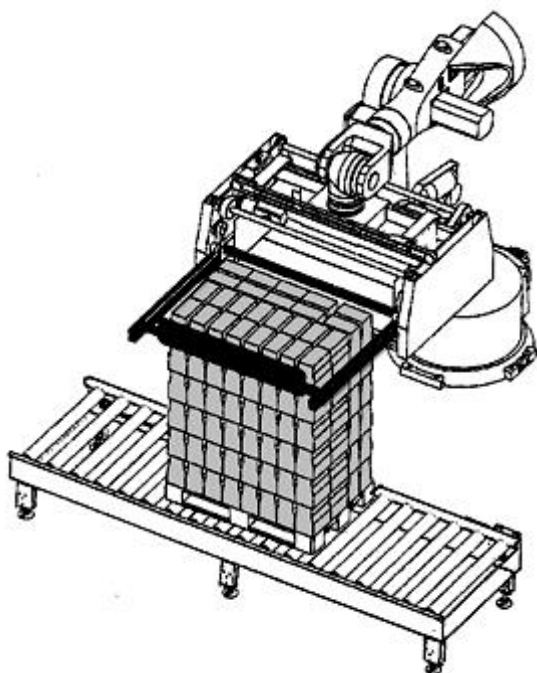
B65G 57/24

the layers being transferred as a whole, e.g. on pallets

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Use of pick-up transfer devices or of manipulators for stacking or de-stacking articles not otherwise provided for	B65G 61/00
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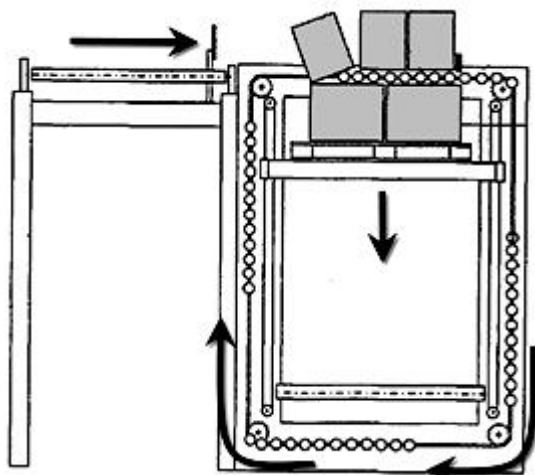
B65G 57/245

{with a stepwise downward movement of the stack}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

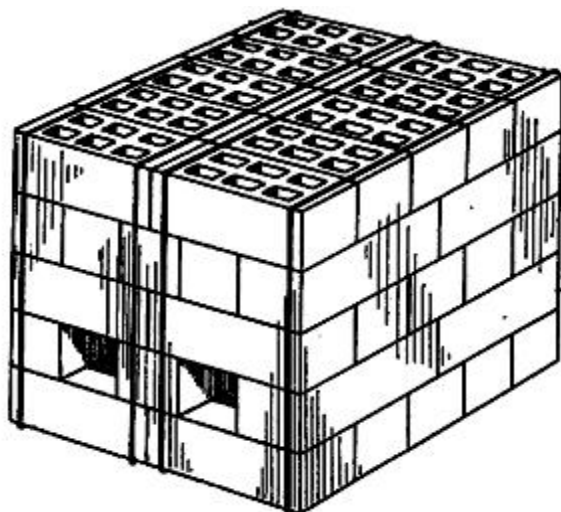
**B65G 57/26**

the arrangement providing for spaces between the articles

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



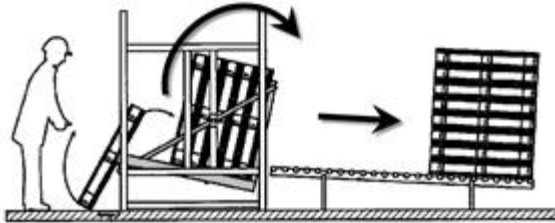
B65G 57/28

by assembling the articles and tilting the assembled articles to a stacked position

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

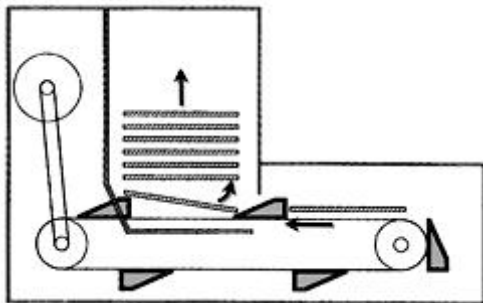
**B65G 57/30**

by adding to the bottom of the stack

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

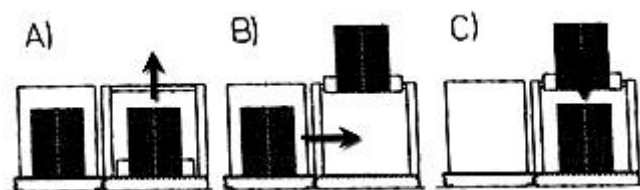
**B65G 57/301**

{by means of reciprocatory or oscillatory lifting and holding or gripping devices}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



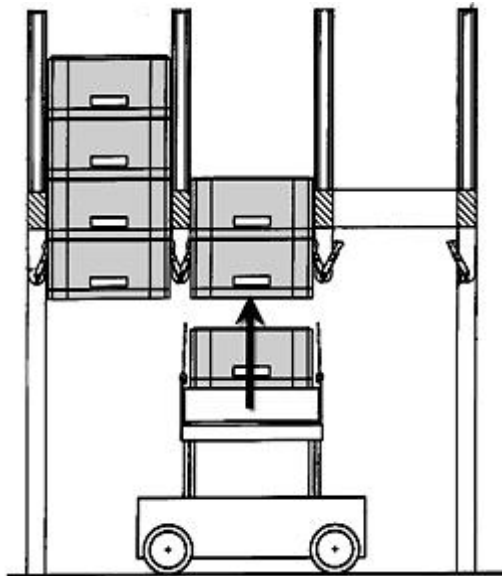
B65G 57/302

{added articles being lifted to substantially stationary grippers or holders}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

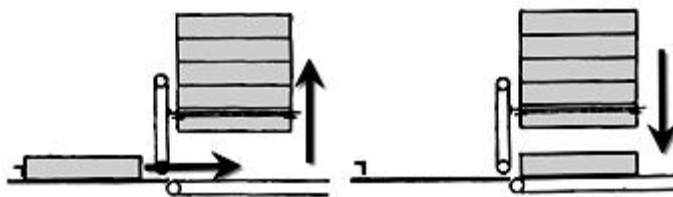
**B65G 57/303**

{the stack being lowered by mobile grippers or holders onto added articles}

Definition statement

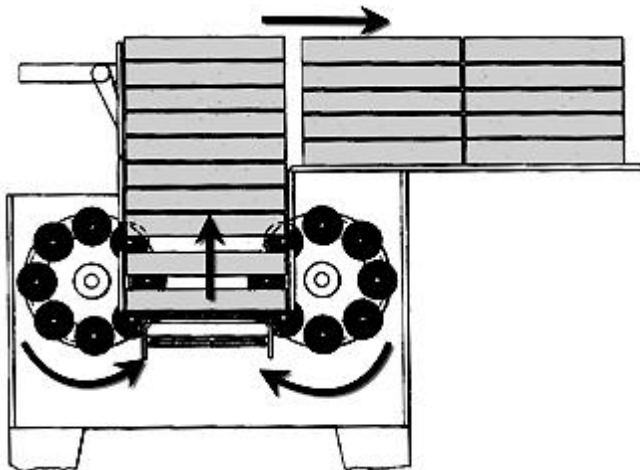
This place covers:

Illustrative example of subject matter classified in this group:

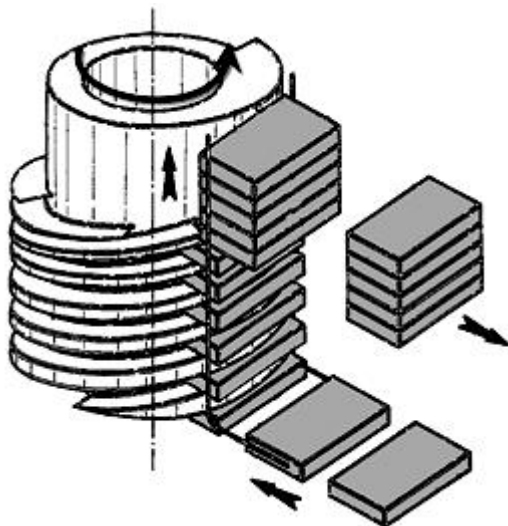


B65G 57/306**{the rotary devices being wheels}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 57/307****{the rotary devices being screws}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



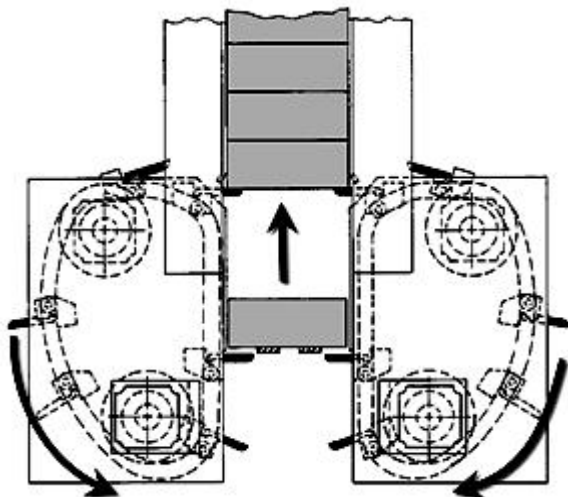
B65G 57/308

{by means of endless elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



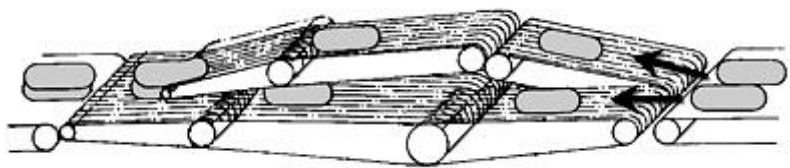
B65G 57/32

characterised by stacking during transit

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B65G 59/00

De-stacking of articles ([B65G 60/00](#) takes precedence)

References

Limiting references

This place does not cover:

Simultaneously or alternatively stacking and de-stacking of articles	B65G 60/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass sheets	B65G 49/068
When the layers are transferred as a whole	B65G 60/00
Destacking devices	B65G 2814/0308
Removing from the top	B65G 2814/031
Other sheets	B65H

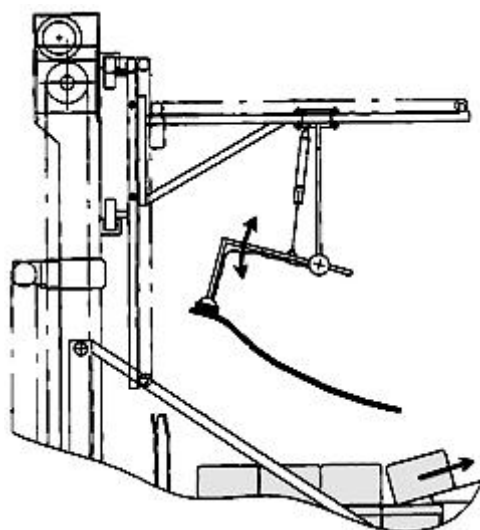
B65G 59/005

{by using insertions or spacers between the stacked layers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

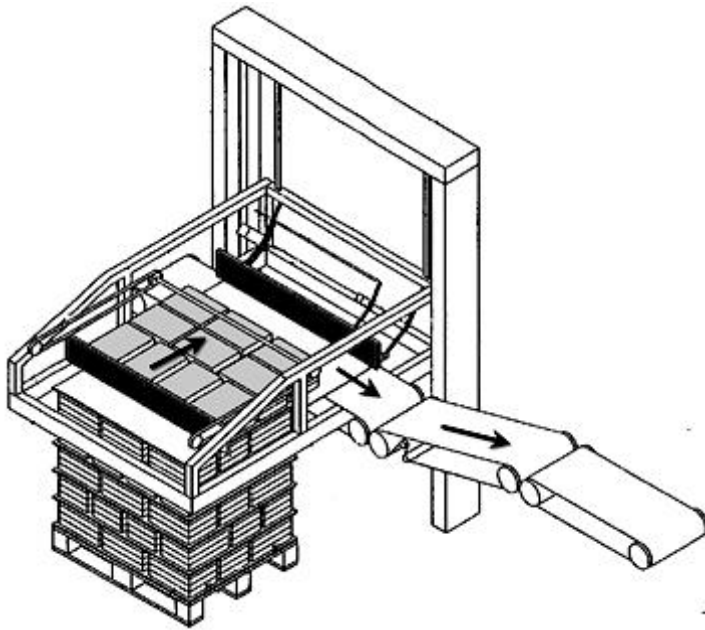
Attention is drawn to the following places, which may be of interest for search:

When the layers are transferred as a whole	3F030/BA08
Collecting spacers (UCLA)	414/929

B65G 59/02**De-stacking from the top of the stack****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

De-stacked nested articles	B65G 59/10
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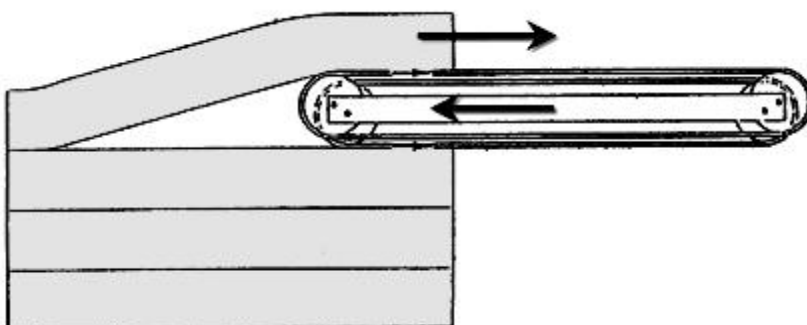
B65G 59/023

{by means insertable between the stacked articles or layers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



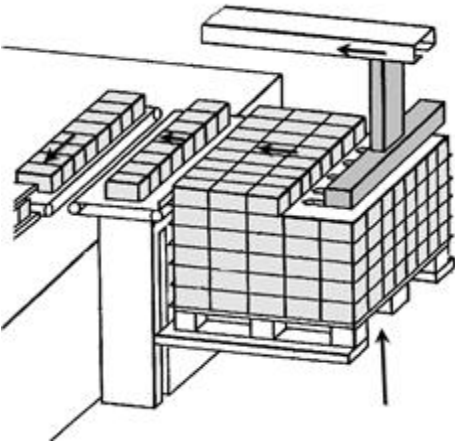
B65G 59/026

{with a stepwise upward movement of the stack}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



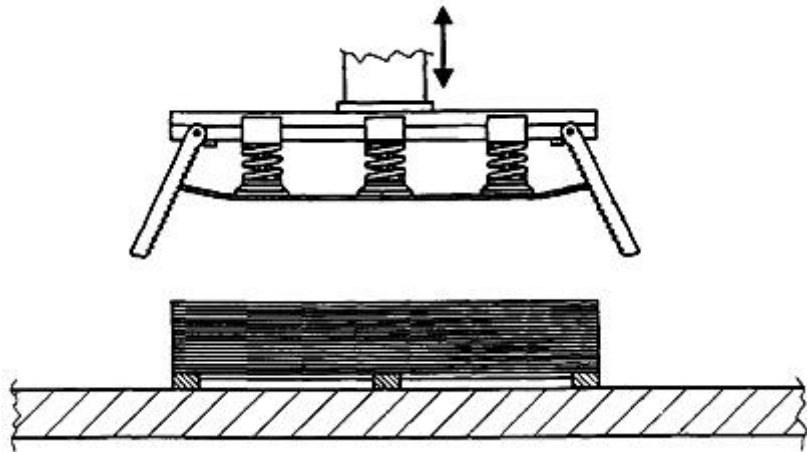
B65G 59/04

by suction or magnetic devices

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Magnetic means for retaining the load on the load-carrying surface	B65G 21/2018
Suction means for retaining the load on the load-carrying surface	B65G 21/2036
Steel sheets	B21D 43/24

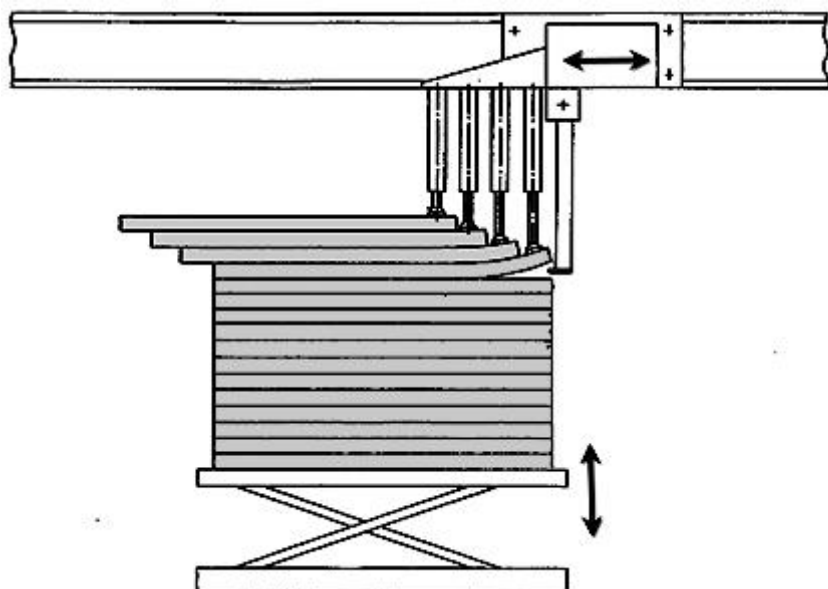
B65G 59/045

{with a stepwise upward movement of the stack}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

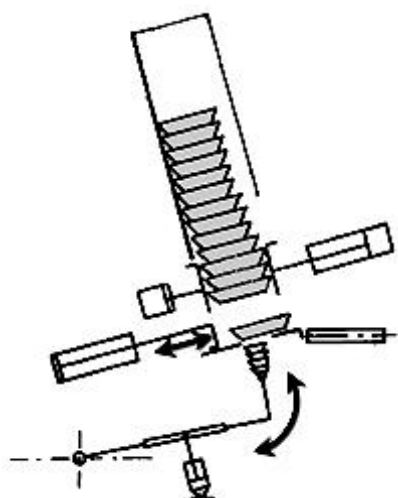
**B65G 59/062**

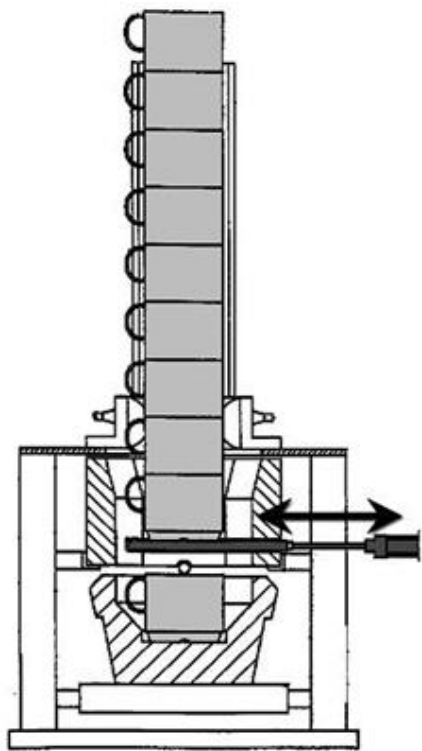
{by means of reciprocating or oscillating escapement-like mechanisms}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Nested articles	B65G 59/103
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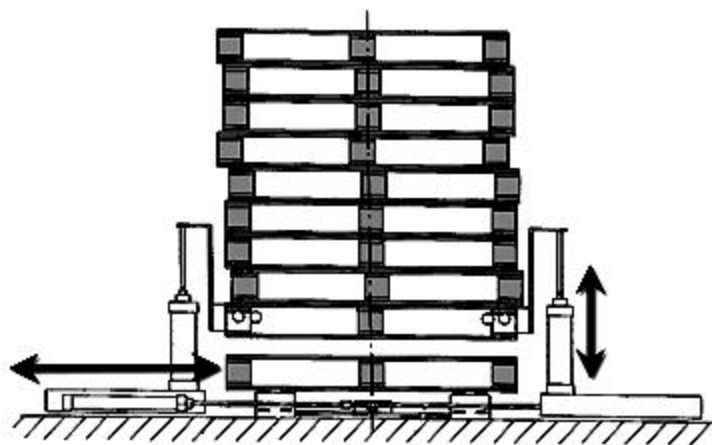
B65G 59/063

{comprising lifting means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Articles being separated substantially perpendicularly to the axis of the stack	B65G 59/067
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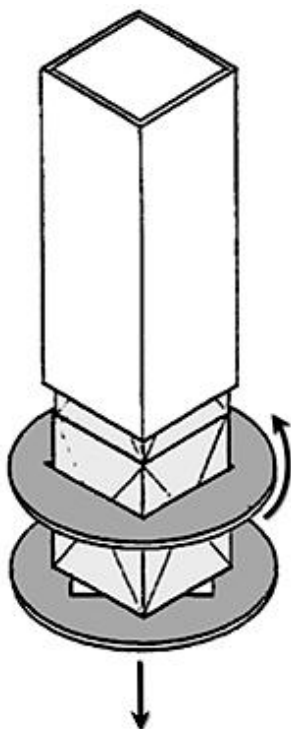
B65G 59/065

{by angularly displacing the stack relatively to the lower most article or vice versa}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



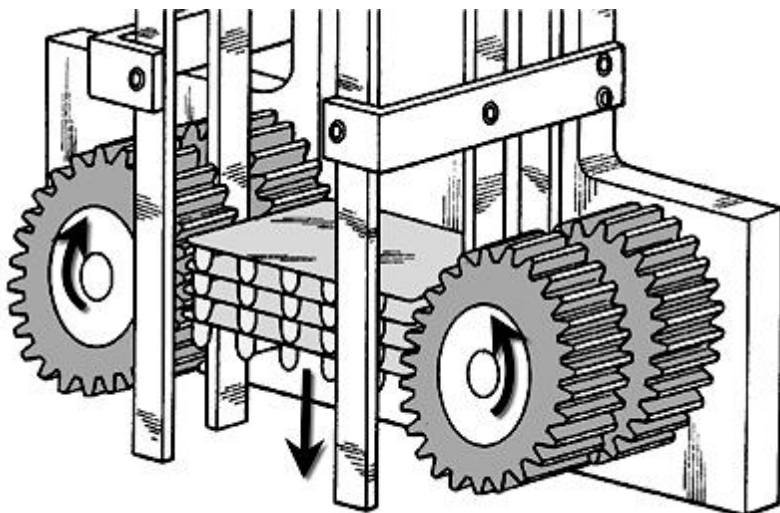
B65G 59/066

{by means of rotary devices or endless elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 59/067**

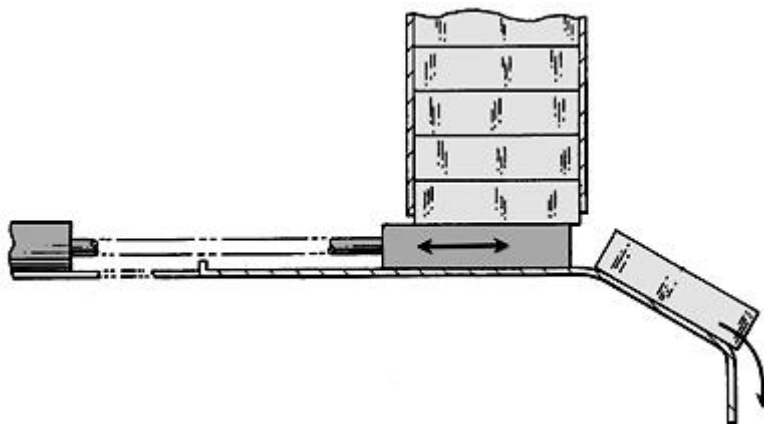
{articles being separated substantially perpendicularly to the axis of the stack}

Definition statement

This place covers:

Only when articles are laying on each other without prior separation by lifting means

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

With prior separation by lifting means	B65G 59/063
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B65G 59/068

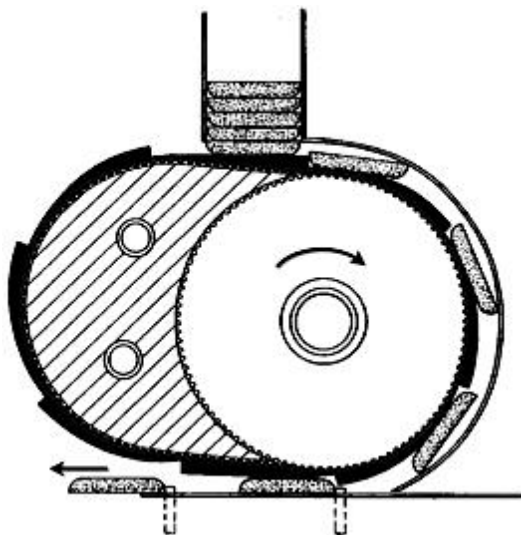
{by means of endless elements}

Definition statement

This place covers:

Only when articles are laying on each other without prior separation by lifting means

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

With prior separation by lifting means	B65G 59/066
--	-----------------------------

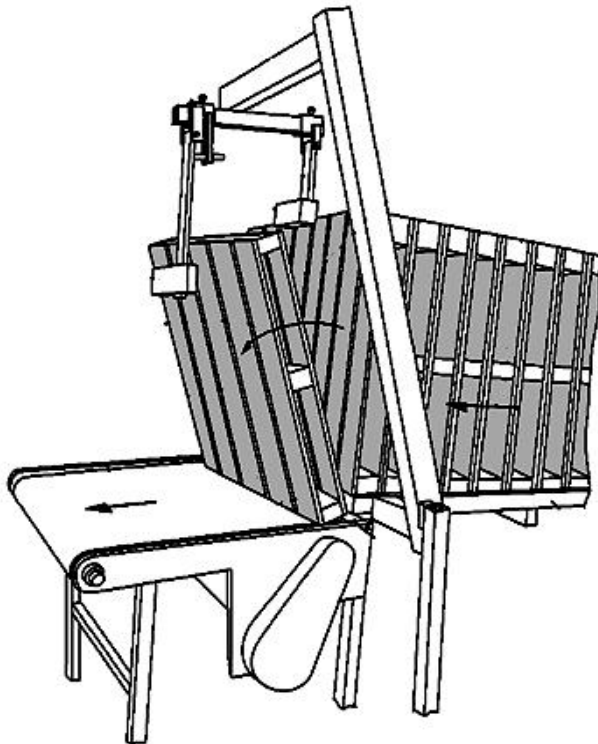
B65G 59/08

De-stacking after preliminary tilting of the stack

Definition statement

This place covers:

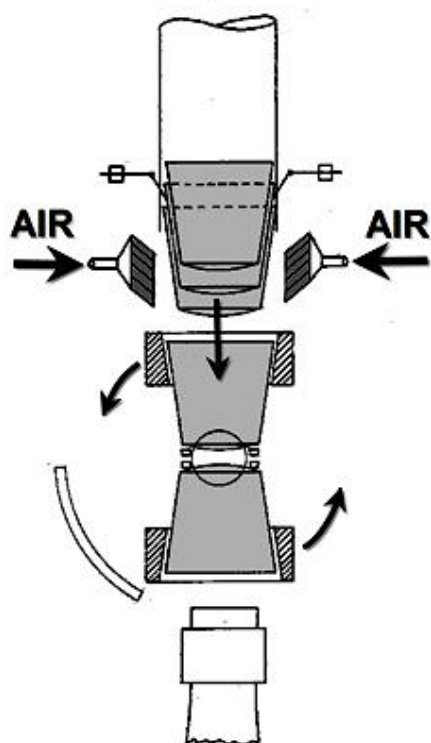
Illustrative example of subject matter classified in this group:



B65G 59/10**De-stacking nested articles****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

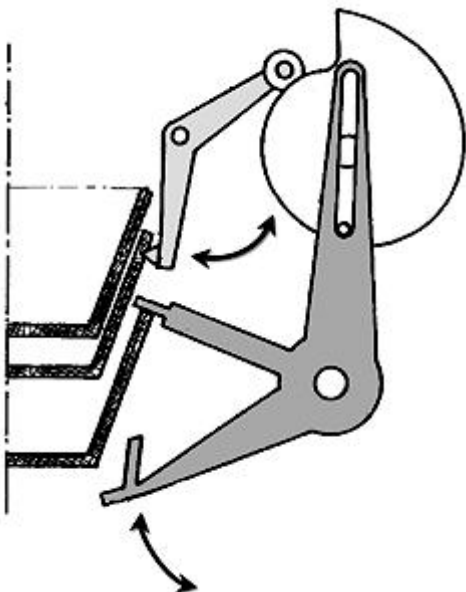
Dispensers	A47F 1/106
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B65G 59/101**{by means of oscillating escapement-like mechanisms}****Definition statement**

This place covers:

Means pivoting about an axis

Illustrative example of subject matter classified in this group:



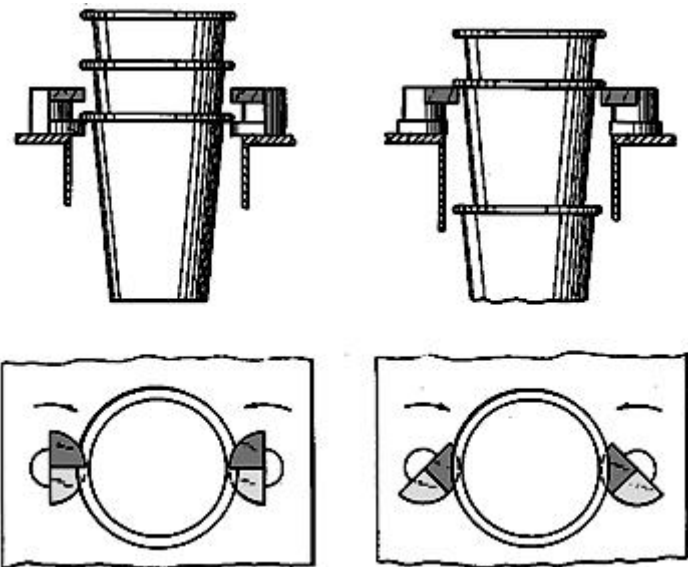
B65G 59/102

{the axis of oscillation being substantially parallel to the axis of the stack}

Definition statement

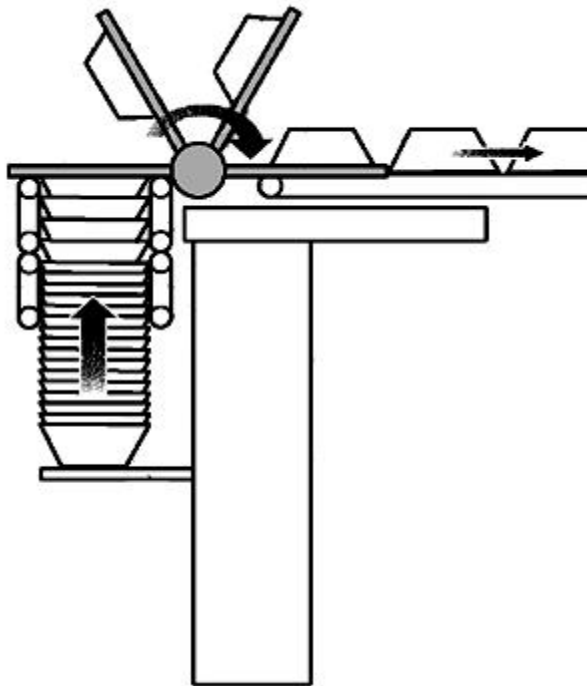
This place covers:

Illustrative example of subject matter classified in this group:



B65G 59/103**{comprising lifting or gripping means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

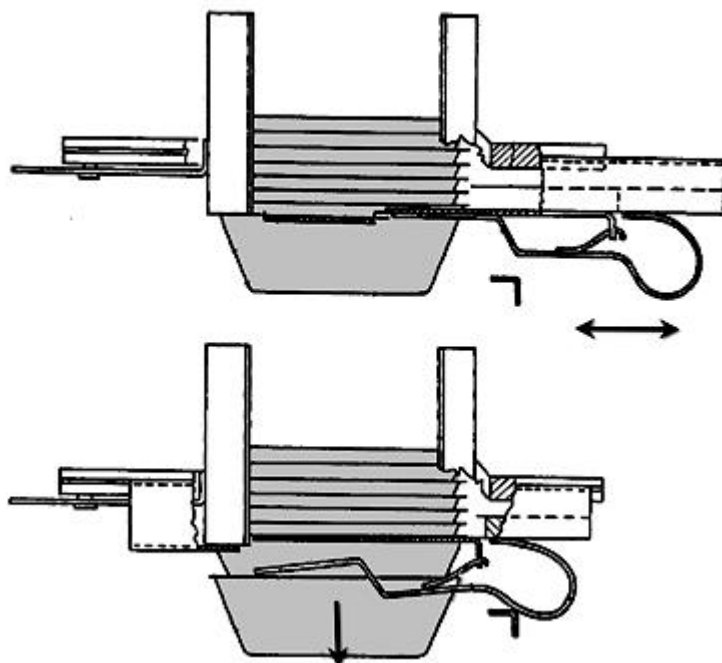
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

De-stacking from the bottom of the stack by means of reciprocating or oscillating escapement-like mechanisms	B65G 59/062
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B65G 59/105**{by means of reciprocating escapement-like mechanisms}****Definition statement***This place covers:*

Means with a linear path

Illustrative example of subject matter classified in this group:



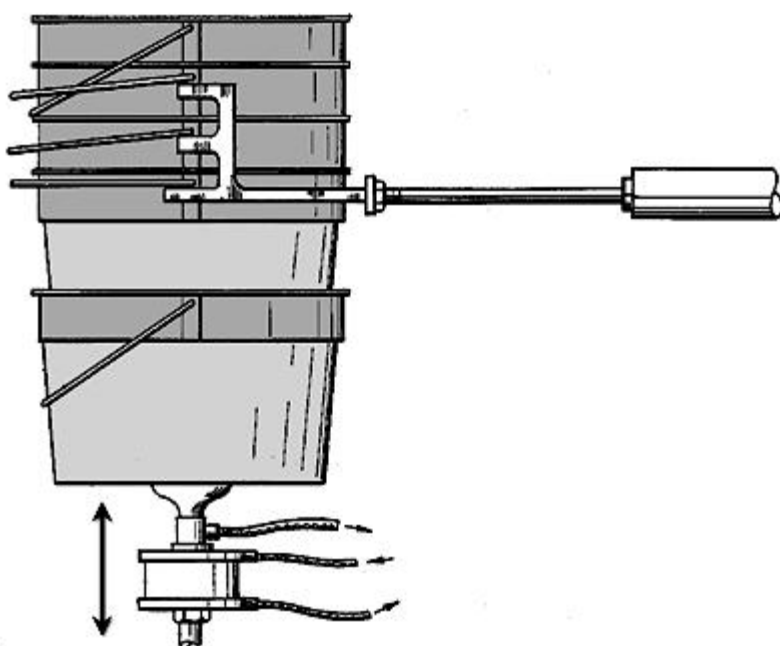
B65G 59/106

{comprising lifting or gripping means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



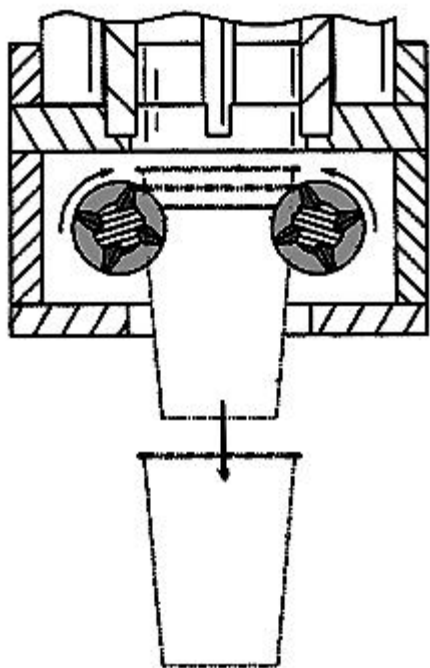
B65G 59/107

{by means of rotary devices or endless elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



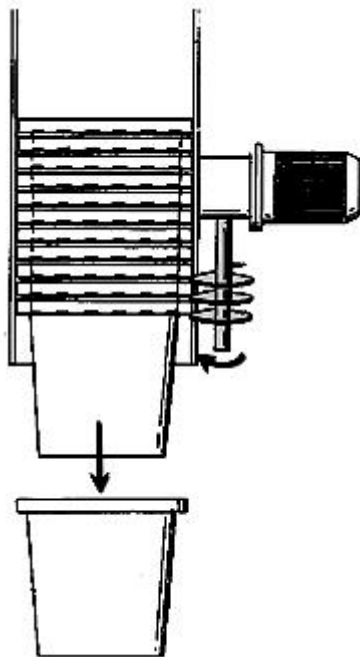
B65G 59/108

{the axis of rotation being substantially parallel to the axis of the stack}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

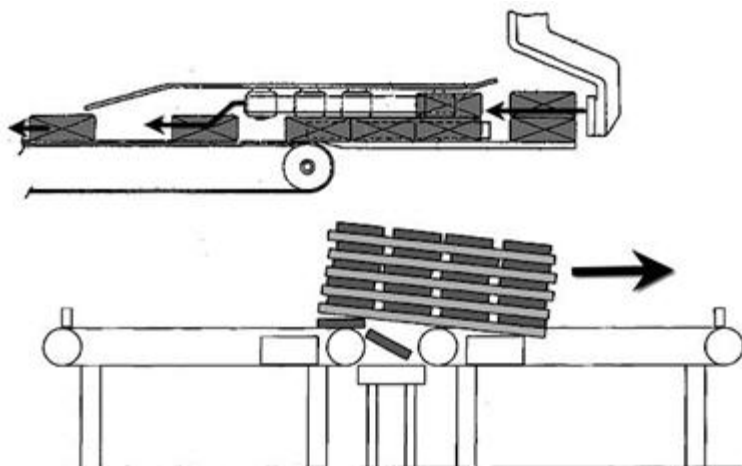
**B65G 59/12**

characterised by de-stacking during transit

Definition statement

This place covers:

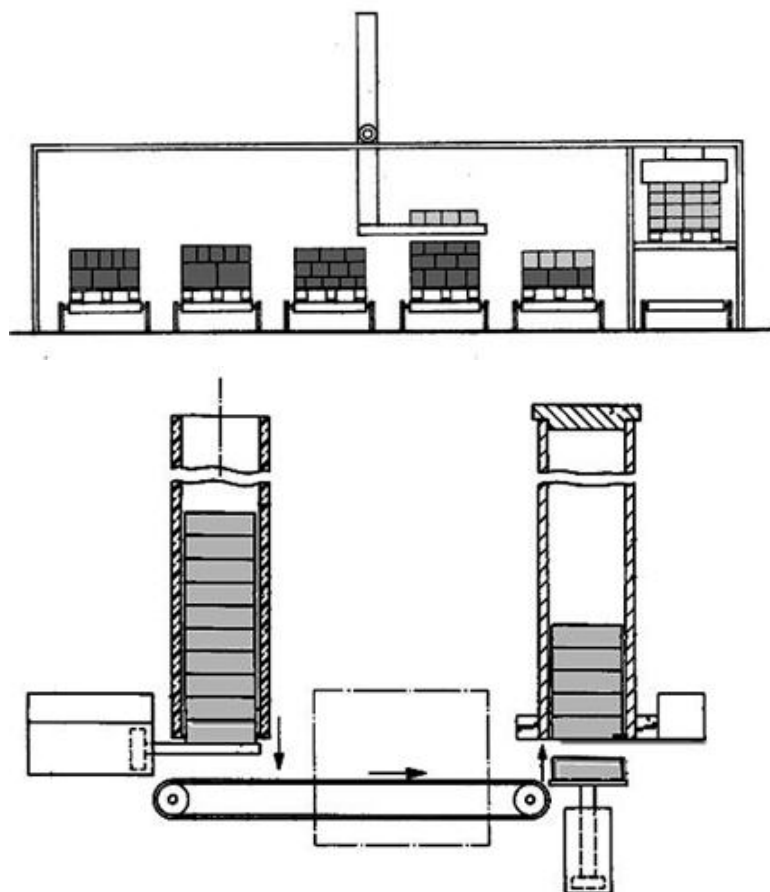
Illustrative example of subject matter classified in this group:



B65G 60/00**Simultaneously or alternatively stacking and de-stacking of articles****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

De-stacking from the bottom of the stack by means of reciprocating or oscillating escapement-like mechanisms	B65G 2814/03
General arrangements	B65G 2814/0301
Central control devices	B65G 2814/0302

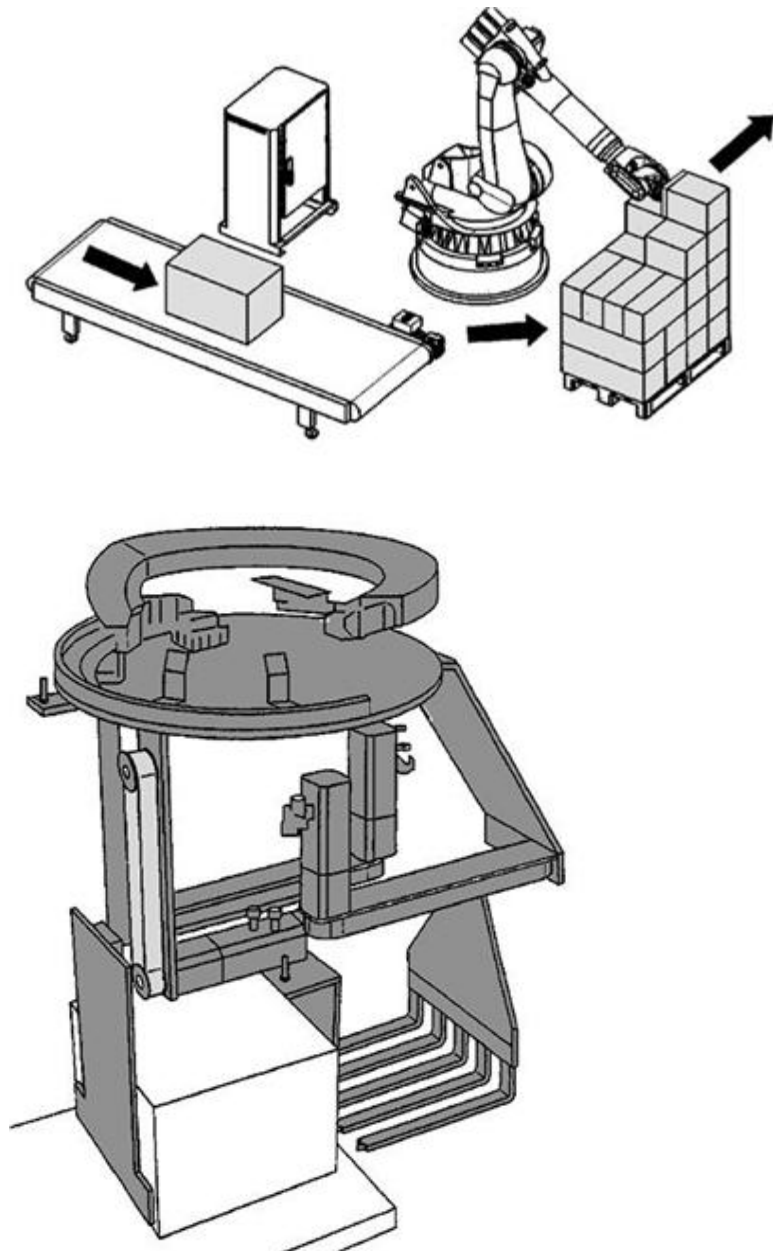
B65G 61/00

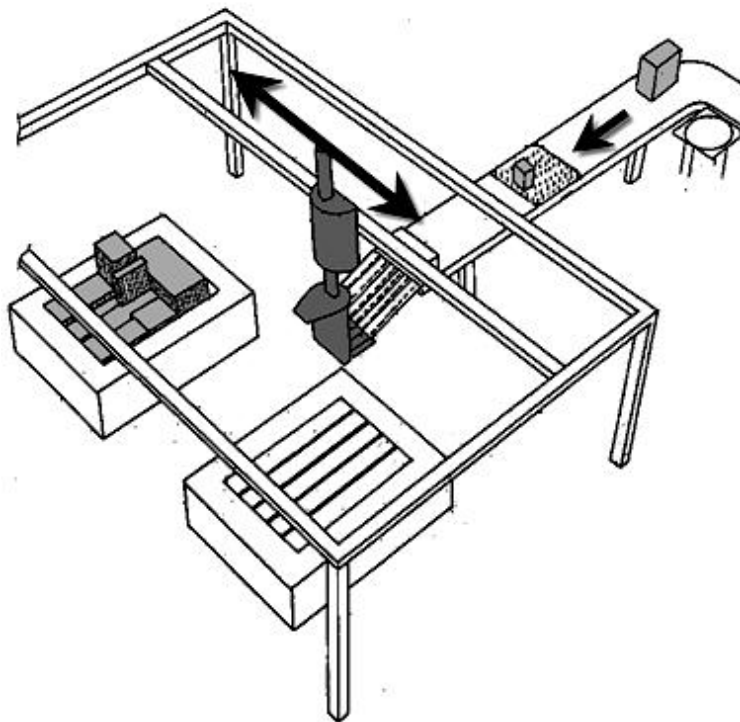
Use of pick-up or transfer devices or of manipulators for stacking or de-stacking articles not otherwise provided for

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Manipulators	B25J
Gantry type manipulation	B25J 9/1615
Digital computers in general; Data processing equipment in general	G06F 15/00
Digital computing or data processing equipment or methods	G06F 17/00

B65G 63/00

Transferring or trans-shipping at storage areas, railway yards or harbours {or in opening mining cuts}; Marshalling yard installations

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transferring of refuse between vehicles or containers	B65F 9/00
Dredging, soil shifting	E02F
Conveyors used in co-operation with coal or like winning apparatus	E21C 47/00

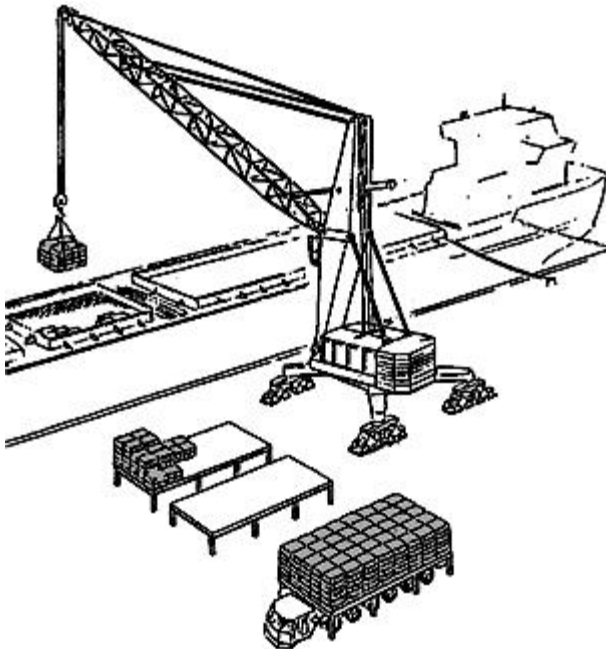
B65G 63/002**{for articles}****Definition statement***This place covers:*

The articles are palletised or are single pieces moved one at a time like rolls of web material. They can be also carriages or vehicle bodies on special pallets.

Containers in the sense of [B65G 63/00](#) are ISO containers or freight/cargo/transport containers 20 and 40 foot.

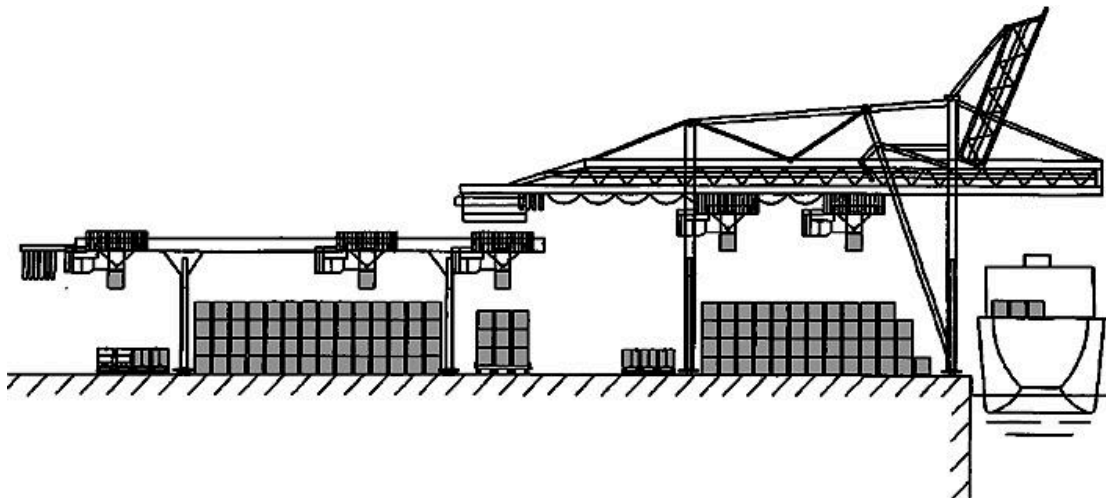
Bulk is dry bulk materials such as corn, sugar, sand, coal, rock, cellulosic materials like wood chips and the like, fertilizer, cement, and the like, seed, rock salt, pharmaceuticals, chemicals, commodities, screws, nuts, bolts and the like, but could be anything, like ball bearings, or widgets.

Illustrative example of subject matter classified in this group:

**B65G 63/004****{for containers}****Definition statement***This place covers:*

Containers in the sense of [B65G 63/00](#) are ISO containers or freight/cargo/transport containers 20 and 40 foot.

Illustrative example of subject matter classified in this group:



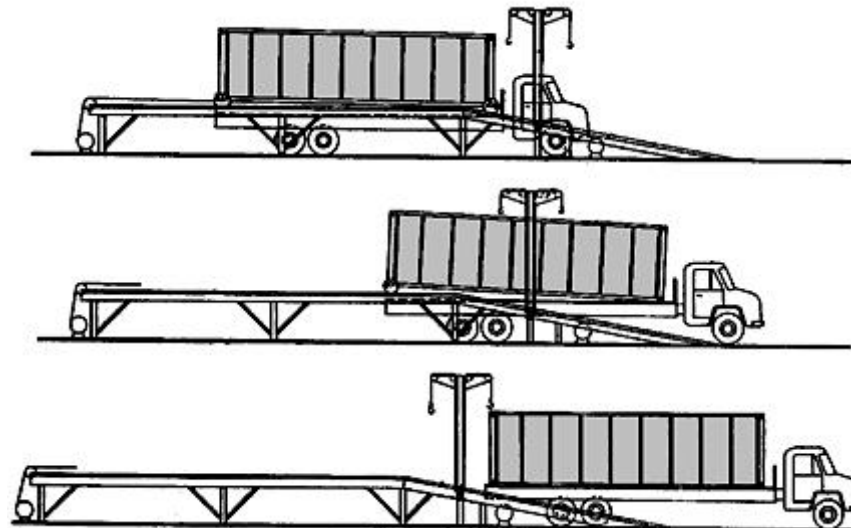
B65G 63/006

{using slanted guides}

Definition statement

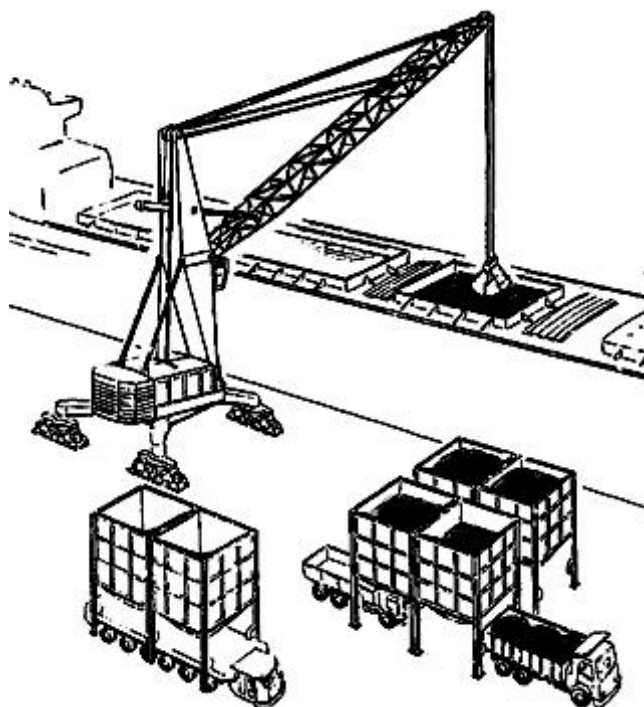
This place covers:

Illustrative example of subject matter classified in this group:



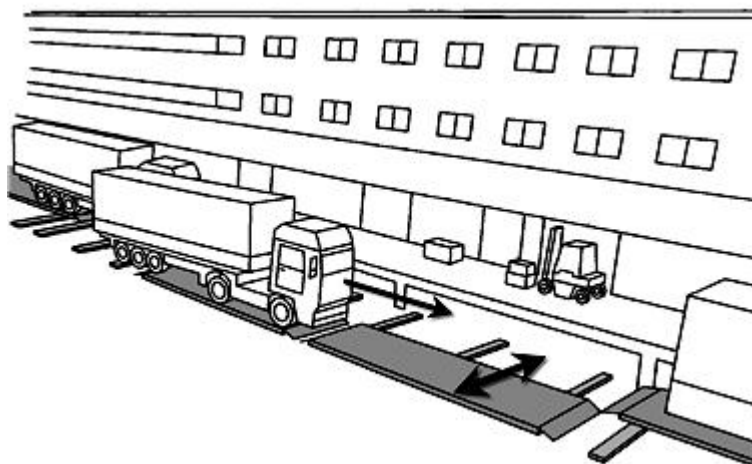
B65G 63/008**{for bulk material}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 63/02****with essentially horizontal transit otherwise than by bridge****Definition statement***This place covers:*

No essential vertical displacement (only limited lift action) - horizontally supported from under and travels horizontally

Illustrative example of subject matter classified in this group:



B65G 63/022

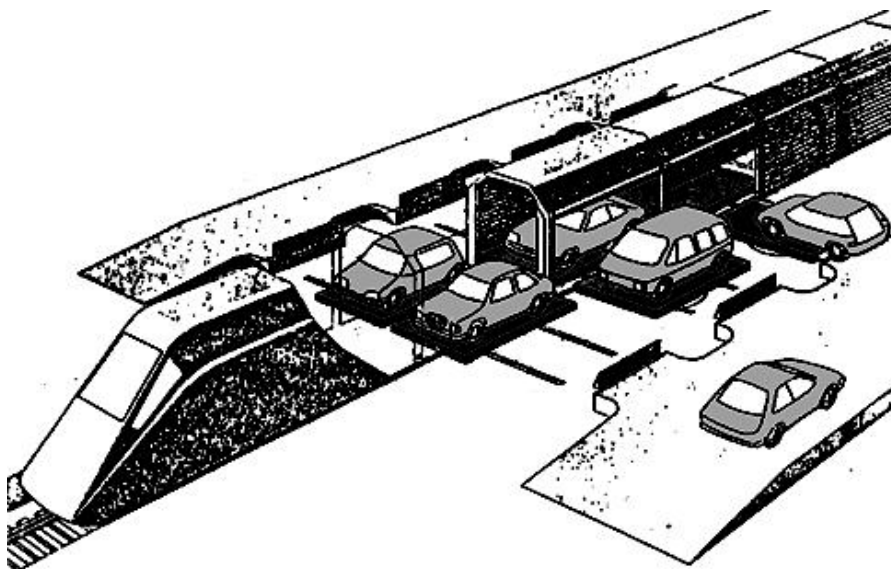
{for articles}

Definition statement

This place covers:

The articles are palletised or are single pieces moved one at a time like rolls of web material .They can be also carriages or vehicle bodies on special pallets.

Illustrative example of subject matter classified in this group:



B65G 63/025

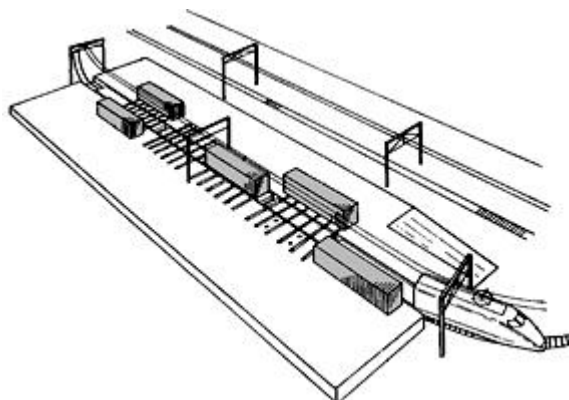
{for containers}

Definition statement

This place covers:

Containers in the sense of [B65G 63/00](#) are ISO containers or freight/cargo/transport containers 20 and 40 foot.

Illustrative example of subject matter classified in this group:



B65G 63/027

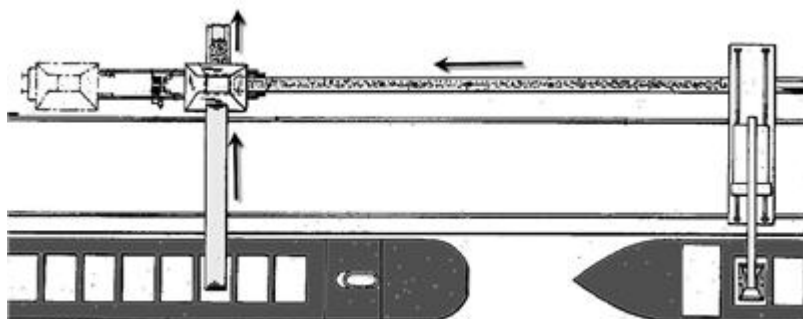
{for bulk material}

Definition statement

This place covers:

Bulk is dry bulk materials such as corn, sugar, sand, coal, rock, cellulosic materials like wood chips and the like, fertilizer, cement, and the like, seed, rock salt, pharmaceuticals, chemicals, commodities, screws, nuts, bolts and the like, but could be anything, like ball bearings, or widgets.

Illustrative example of subject matter classified in this group:



B65G 63/04

with essentially-horizontal transit by bridges equipped with conveyors

Definition statement

This place covers:

Load is suspended and travels horizontally

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

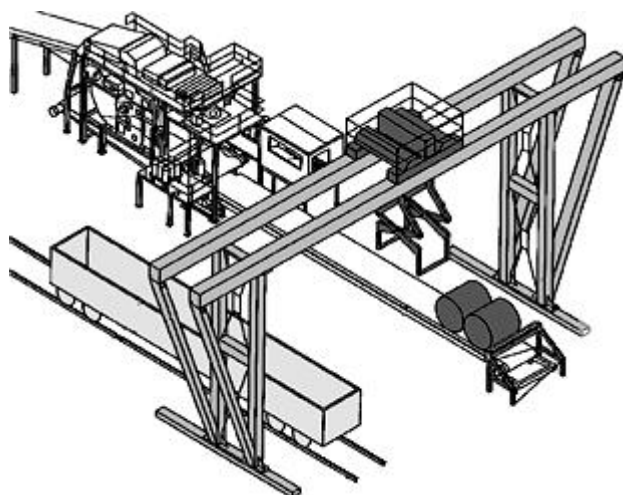
Skips	B66B 17/26
Cranes	B66C

B65G 63/042

{for articles}

Definition statement*This place covers:*

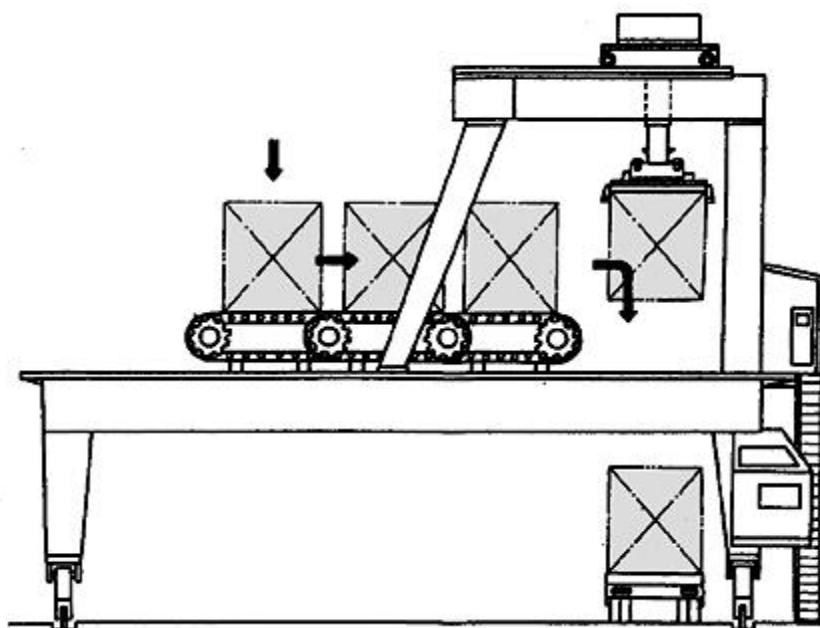
Illustrative example of subject matter classified in this group:

**B65G 63/045**

{for containers}

Definition statement*This place covers:*

Illustrative example of subject matter classified in this group:



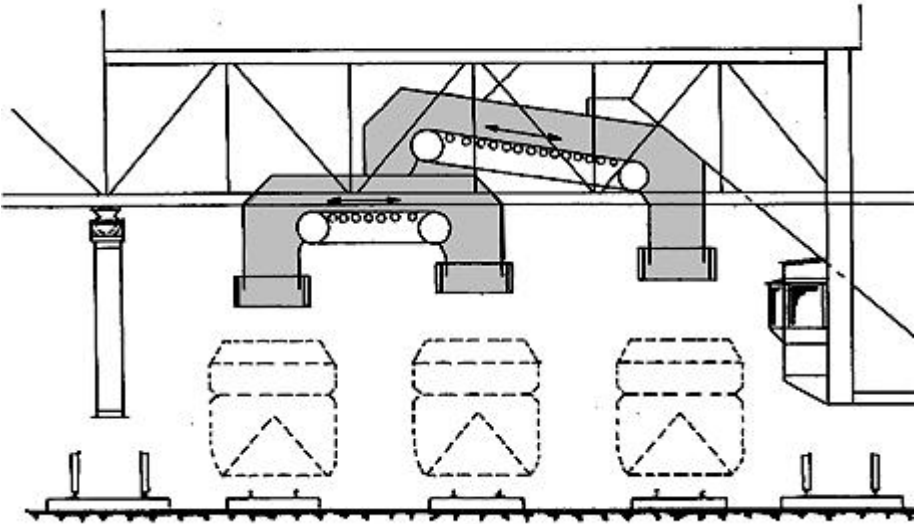
B65G 63/047

{for bulk material}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Piling or unpling loose materials in bulk, e.g. coal, manure, timber, not otherwise provided for	B65G 65/28
Loading or unloading ships using devices specially adapted for bulk material	B65G 67/606

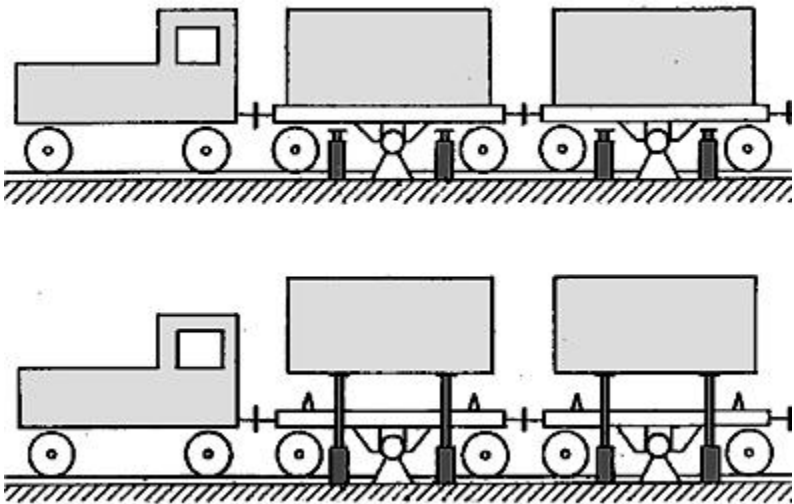
B65G 63/065

{for containers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Using slanted guides	B65G 63/006
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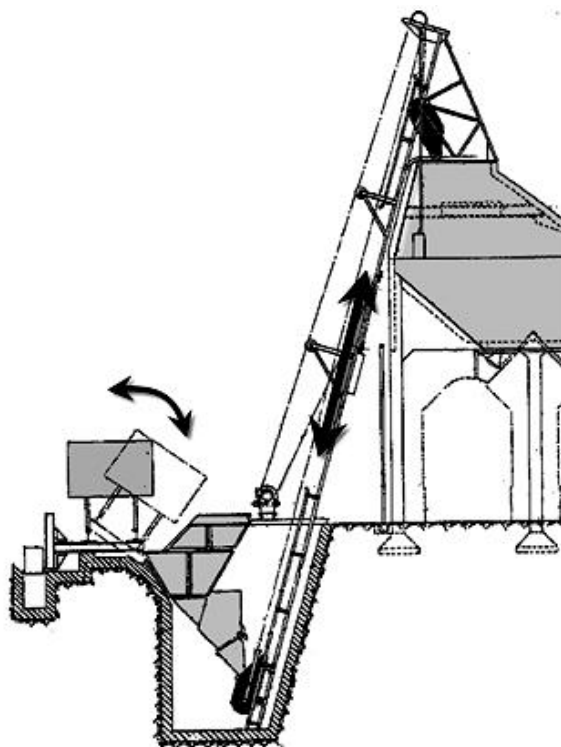
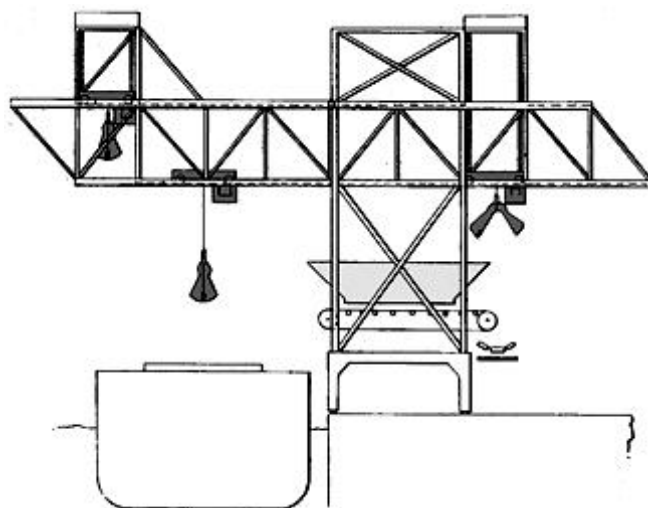
Informative references

Attention is drawn to the following places, which may be of interest for search:

Legs, e.g. detachable	B65D 90/14
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B65G 63/067**{for bulk material}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



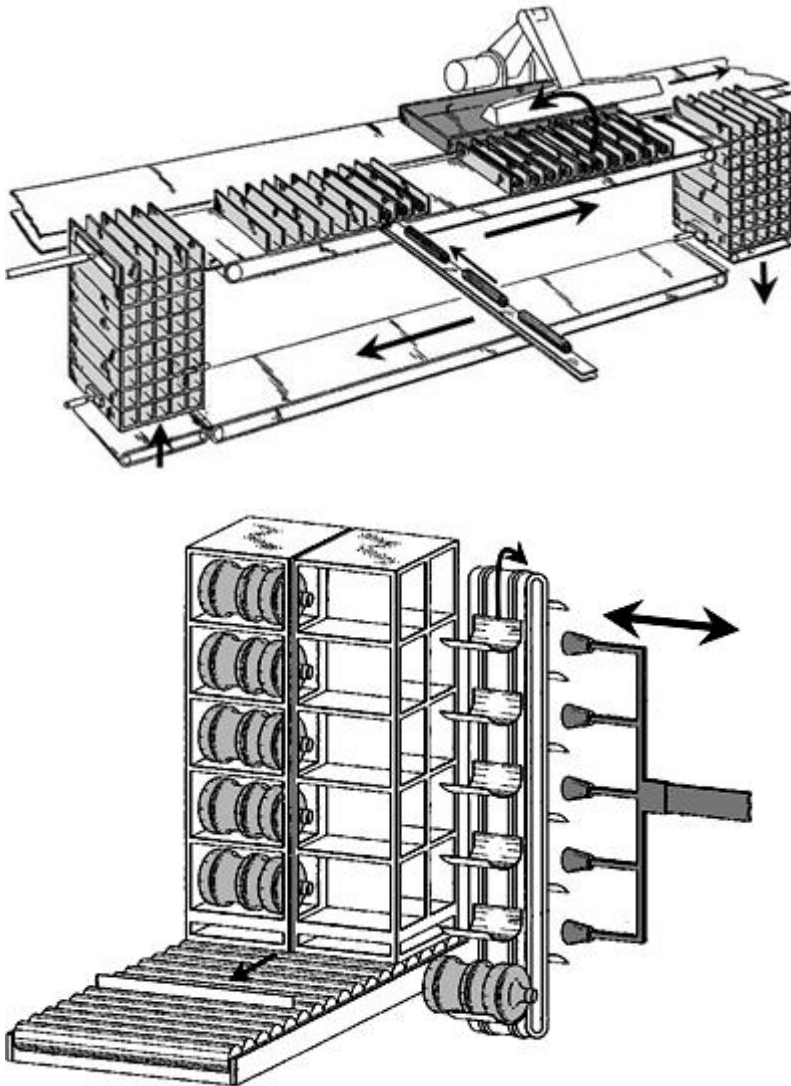
B65G 65/00

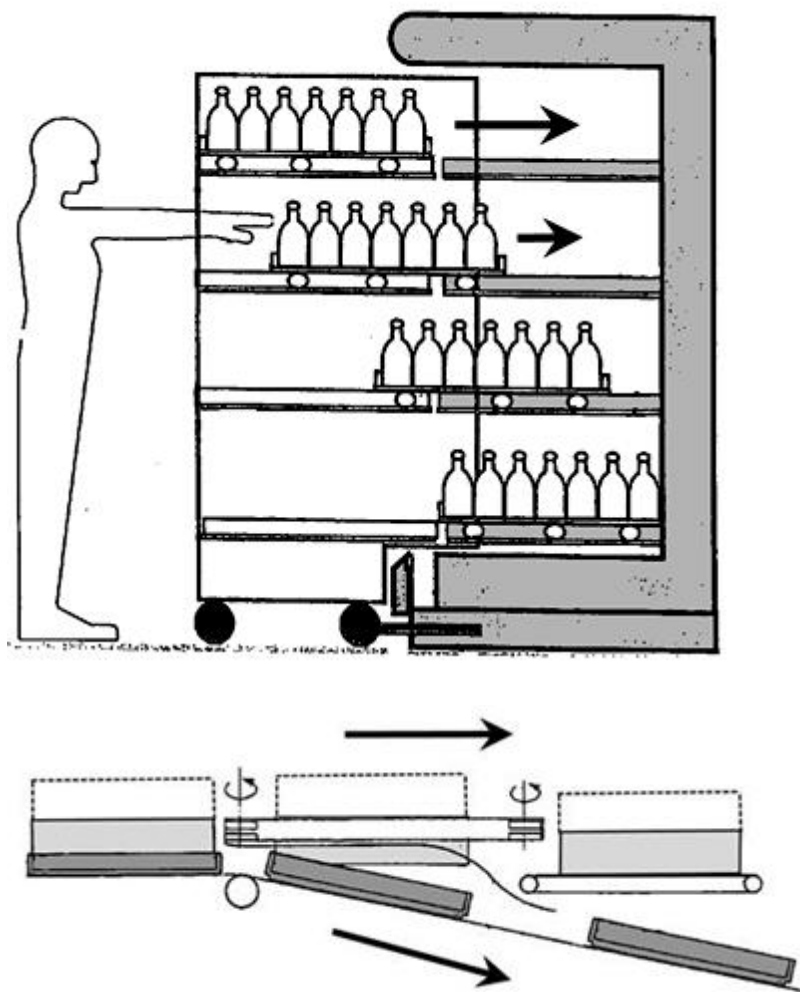
Loading or unloading (of vehicles [B65G 67/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





References

Limiting references

This place does not cover:

Loading/unloading vehicles, piling	B65G 67/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or discharging conveyors by devices incorporated in, or operatively associated with, conveyors	B65G 47/00
Loading or unloading articles or bulk materials	B65G 2814/0217 - B65G 2814/0235
Loading or unloading means	B65G 2814/0314 - B65G 2814/0343

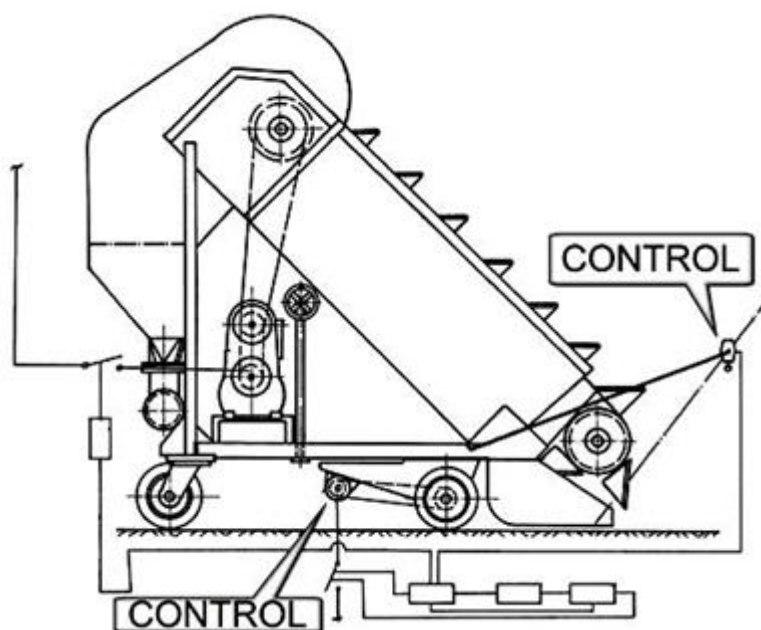
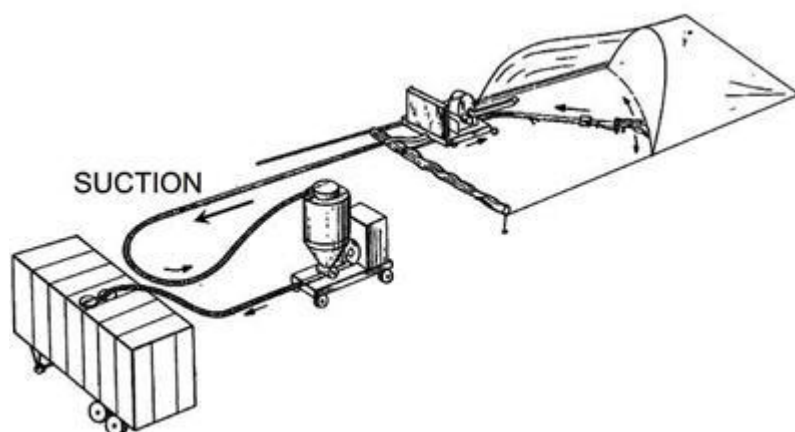
B65G 65/02

Loading or unloading machines comprising essentially a conveyor for moving the loads associated with a device for picking-up the loads

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Suction take-up	B65G 53/00
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B65G 65/04

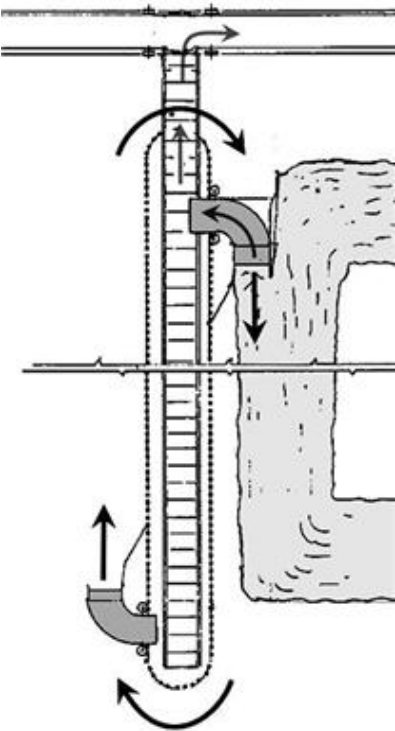
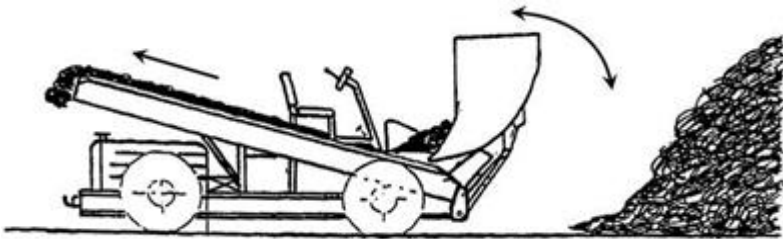
with pick-up shovels (constructions of shovels [E02F](#))

Definition statement

This place covers:

With lift-up of the material

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Raking or scraping devices without lifting up	B65G 65/10
Raking or scraping devices without lifting up	B65G 65/12

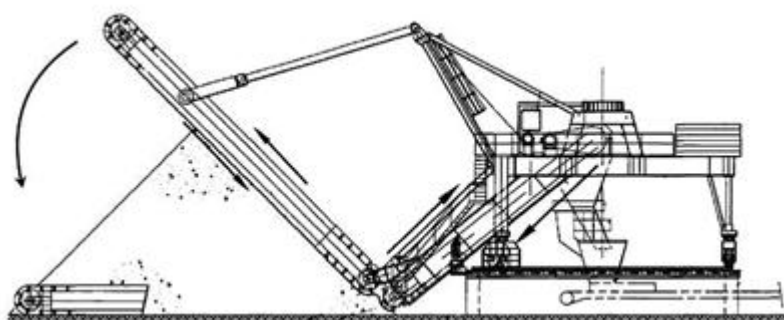
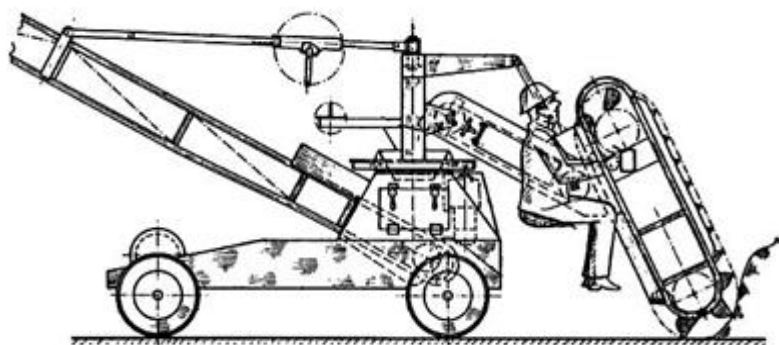
B65G 65/06

with endless scraping or elevating pick-up conveyors

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

For silos	B65G 65/42
For ships	B65G 67/606
For fertilizers	C05F 17/943

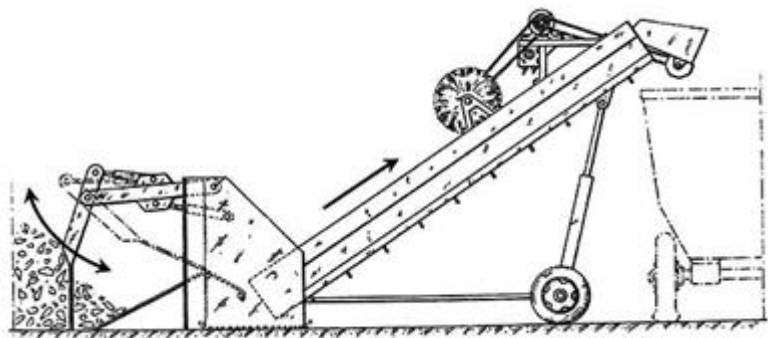
B65G 65/10

Raking or scraping devices

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

The carrier or impeller having different forward and return paths or movement	B65G 25/02
Using reciprocating conveyors	B65G 65/44

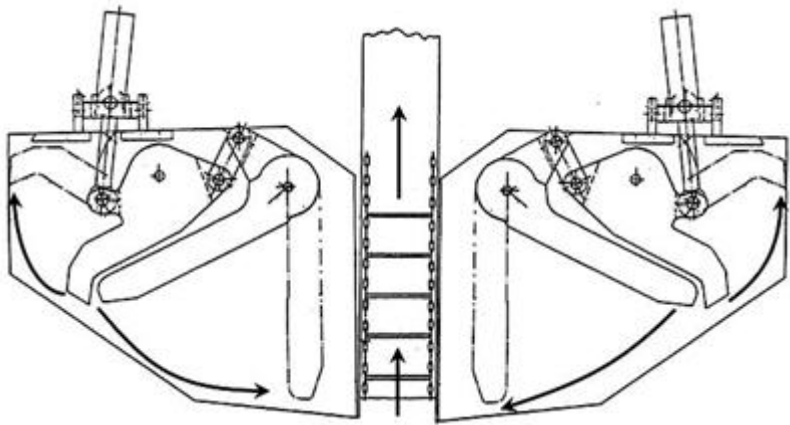
B65G 65/12

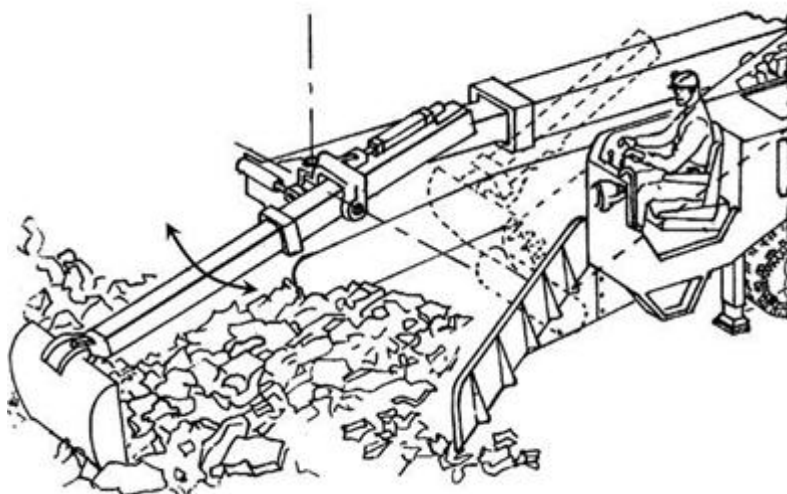
operations at positions off-set from the conveyor centreline

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





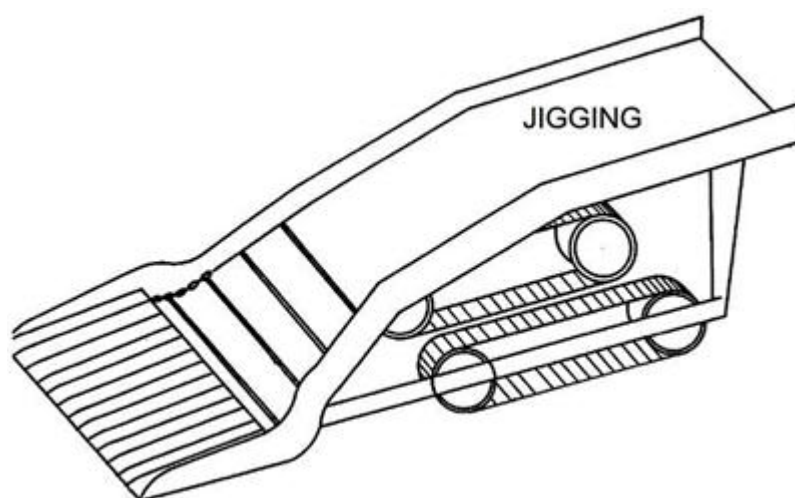
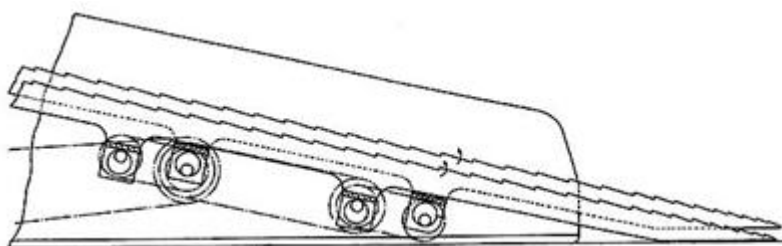
B65G 65/14

with jiggling pick-up conveyors, e.g. duck-bills

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



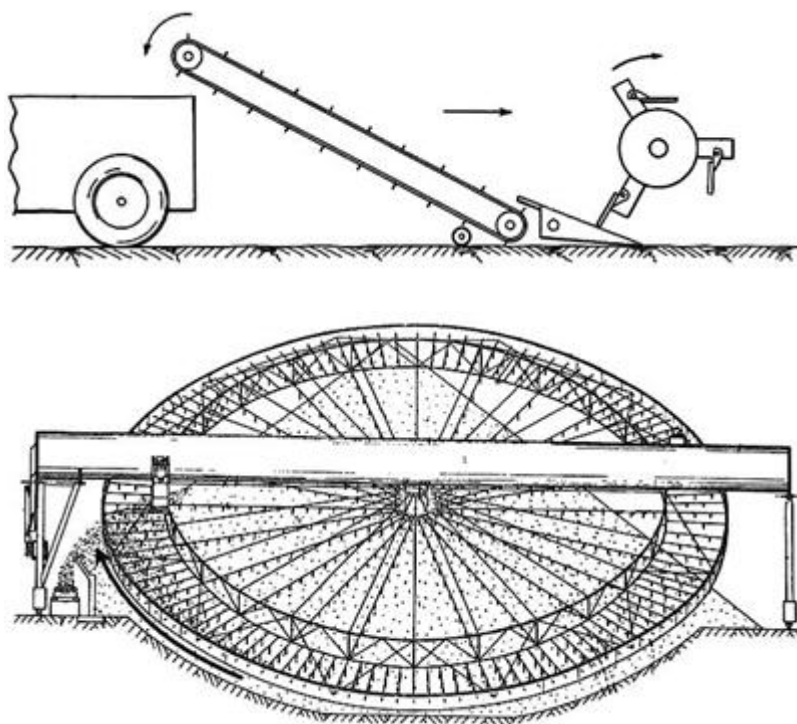
B65G 65/16

with rotary pick-up conveyors

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



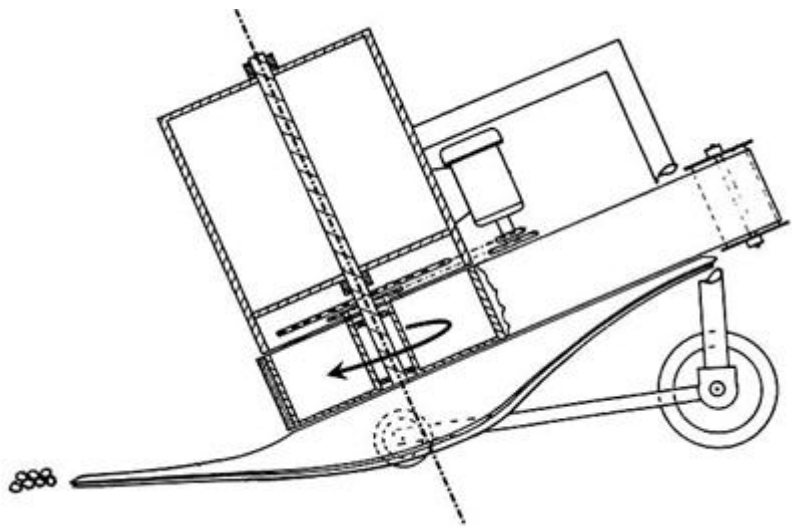
B65G 65/18

Discs

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rotating arms	B65G 65/16
Emptying bunkers	B65G 65/4836

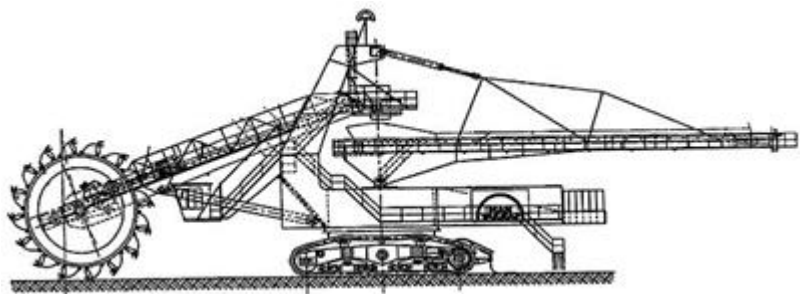
B65G 65/20

Paddle wheels

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Using other rotating means	B65G 65/48
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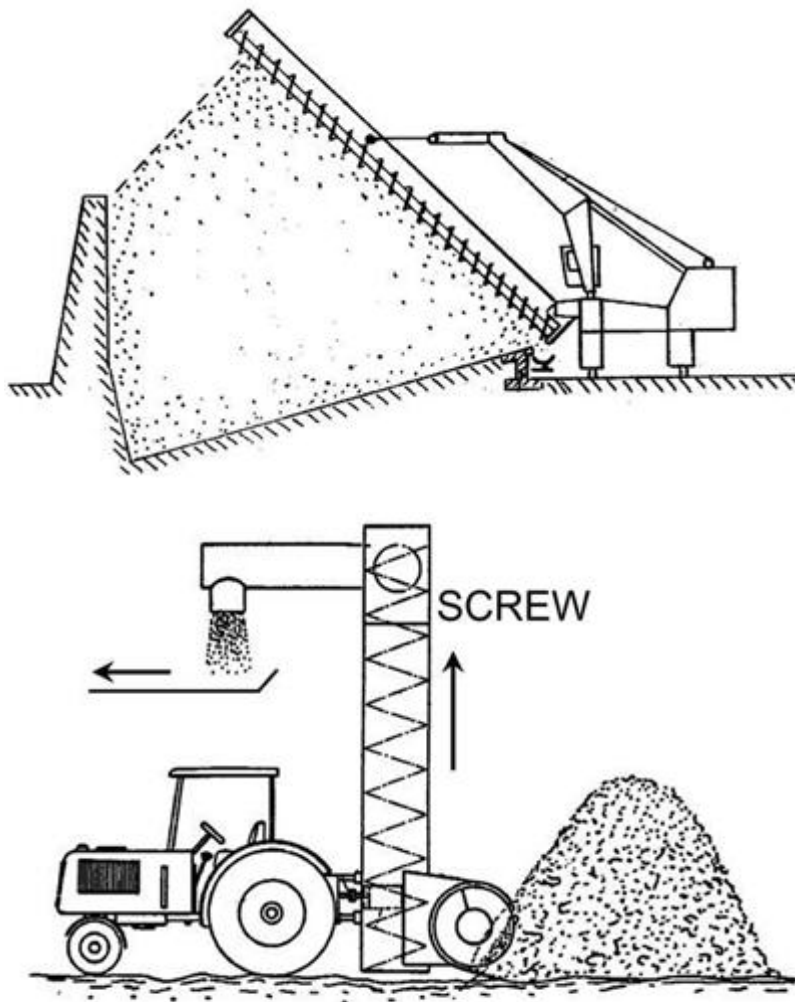
B65G 65/22

Screws

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



References

Informative references

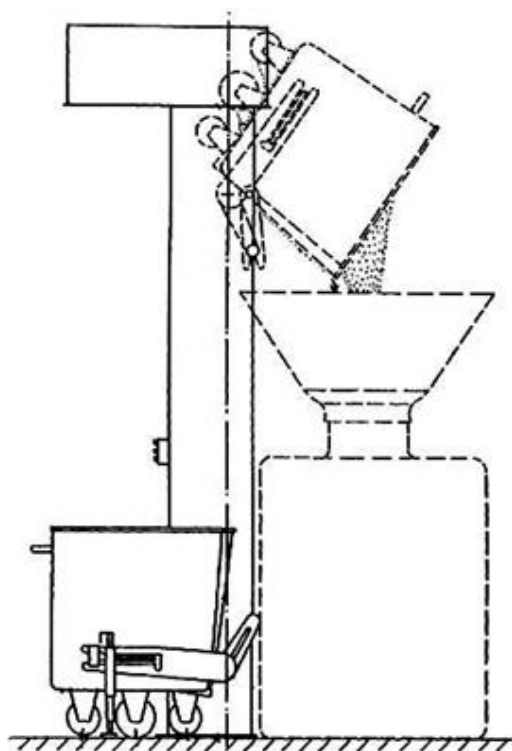
Attention is drawn to the following places, which may be of interest for search:

Emptying bunkers	B65G 65/46
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B65G 65/23**Devices for tilting and emptying of containers****Definition statement**

This place covers:

Illustrative examples of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Destacking after tilting	B65G 59/08
Large containers filling or emptying by tilting	B65D 88/56
Refuse, garbage	B65F

B65G 65/24

for manual tilting of barrels or casks

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Handling heavy material	B65G 7/08
Machines, apparatus or devices for, or methods of, packaging articles or materials; unpacking	B65B

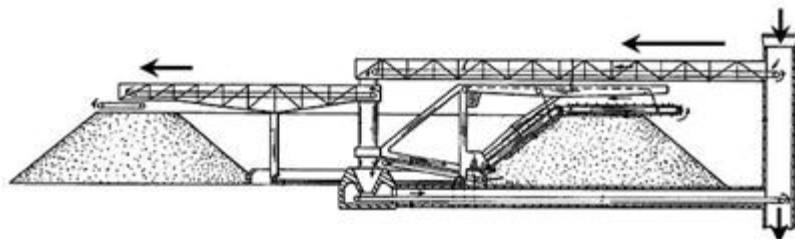
B65G 65/28

Piling or unpling loose materials in bulk, e.g. coal, manure, timber, not otherwise provided for (by soil-shifting or like equipment [E02F](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transferring or trans-shipping for bulk materials	B65G 63/008
Open pit mines	E21C 47/04

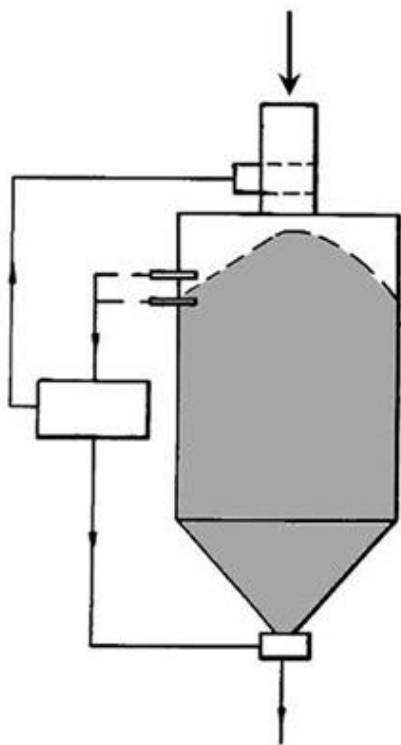
B65G 65/32

Filling devices

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pneumatic conveyors	B65G 51/00 , B65G 53/00
Auxiliary measures taken, or devices used, in connection with loading or unloading	B65G 69/00
Filling reactors	B01J 8/0015
Large containers	B65D 88/00

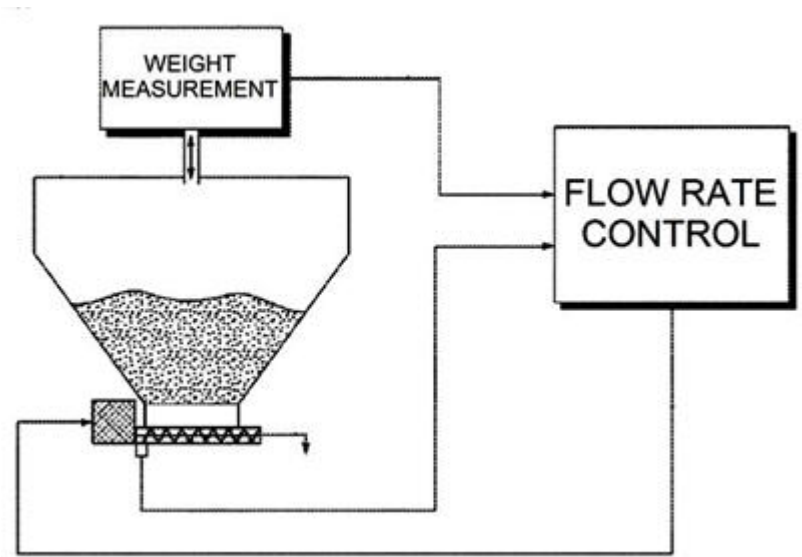
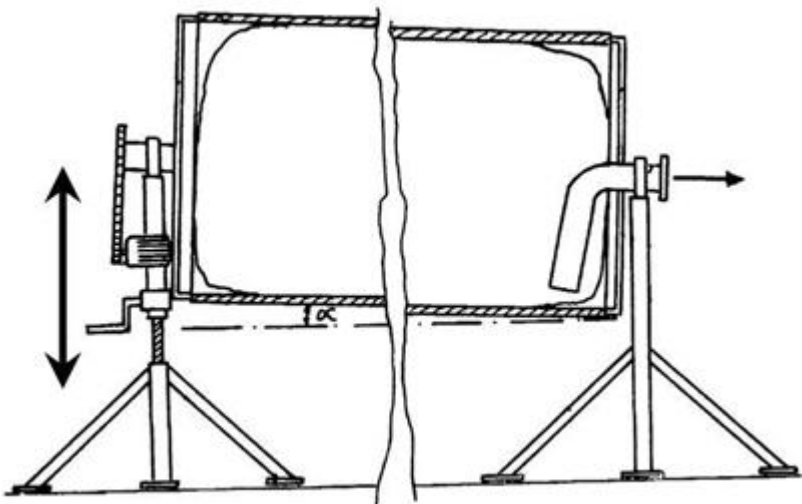
B65G 65/34

Emptying devices (conveyor construction [B65G 15/00](#) - [B65G 35/00](#); devices similar to vehicle tipplers [B65G 67/48](#))

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



References

Limiting references

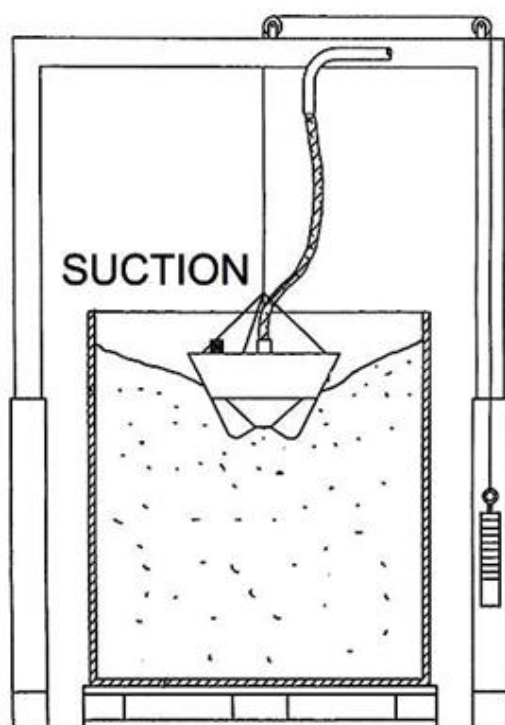
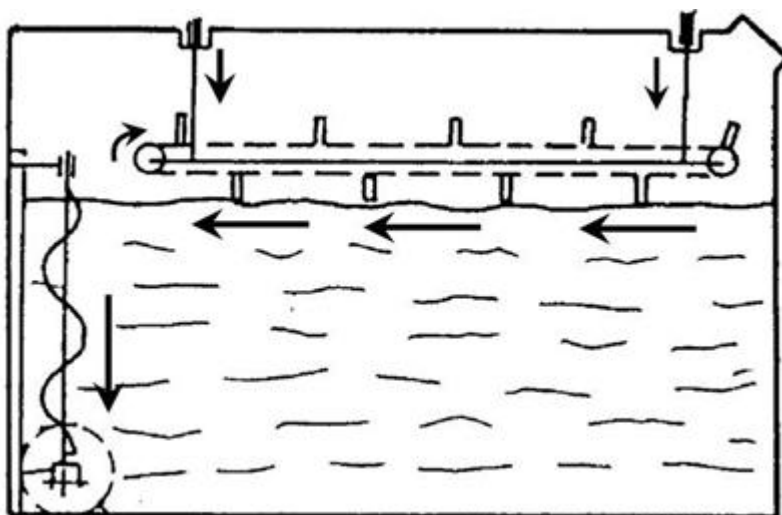
This place does not cover:

Conveyor constructions	B65G 15/00 - B65G 35/00
Devices similar to vehicle tipplers	B65G 67/48

B65G 65/36**Devices for emptying from the top****Definition statement**

This place covers:

Illustrative examples of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Almost identical	B65G 65/38
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Silage	A01F 25/20
Flexible Intermediate Bulk Container, unloading with suction	B65B 69/0075

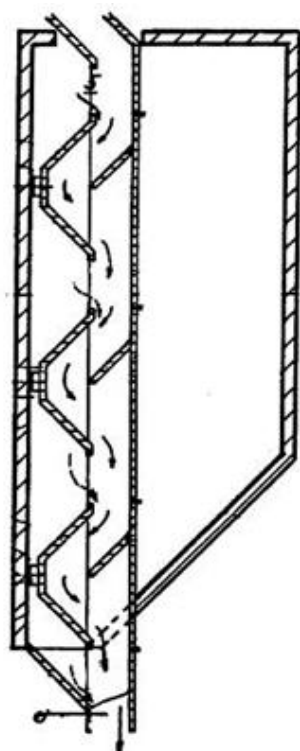
B65G 65/365

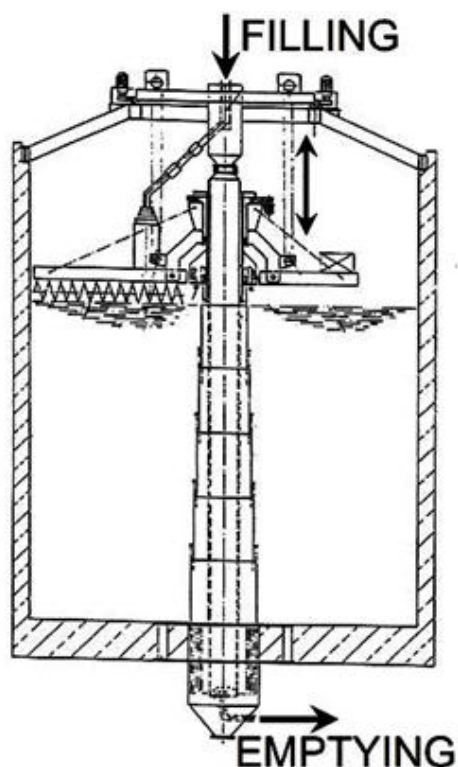
{comprising a vertical passage located inside the container}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Scraping devices	B65G 65/38
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B65G 65/38

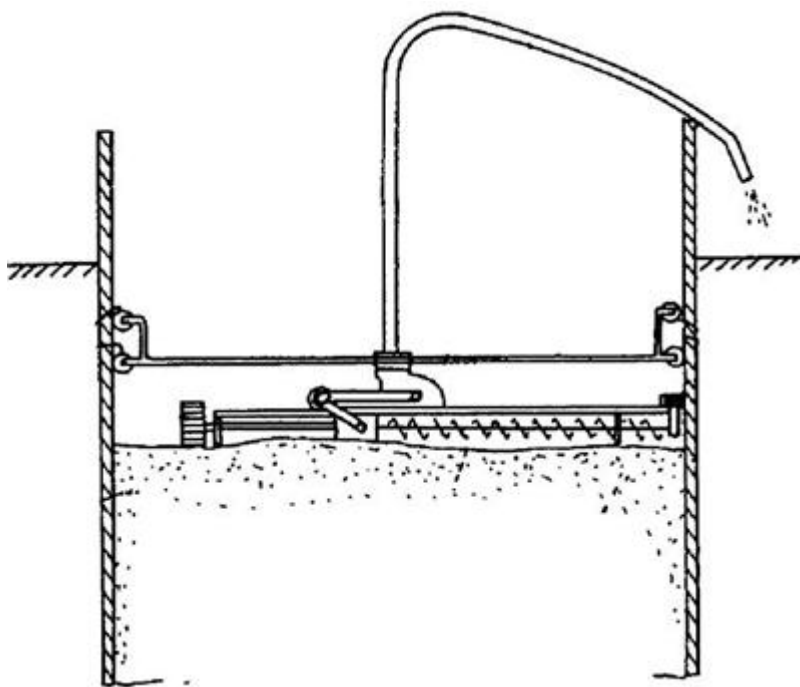
Mechanical devices

Definition statement

This place covers:

Devices include suction tubes and mouths, lifting screens (US2005100430), augers (US2005100430), rakes, blades, scraper conveyors (GB2036686) etc

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for emptying from the top	B65G 65/36
Silage	A01F 25/20

B65G 65/40

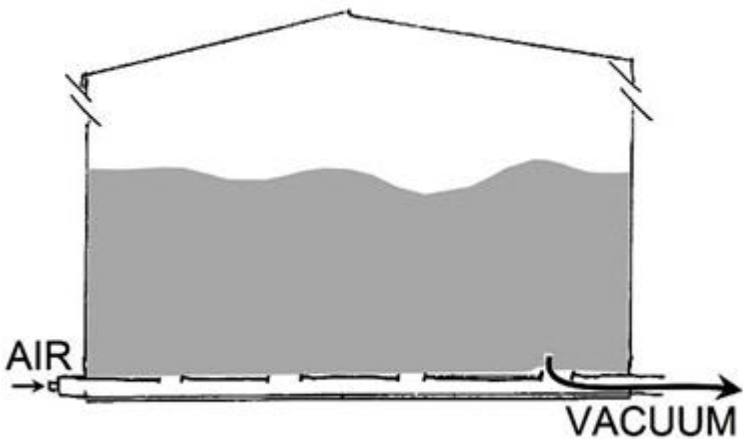
Devices for emptying otherwise than from the top

Definition statement

This place covers:

Emptying from the bottom or middle

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Filling bags or small containers	B65B
Gates or closures	B65D 90/54

B65G 65/42

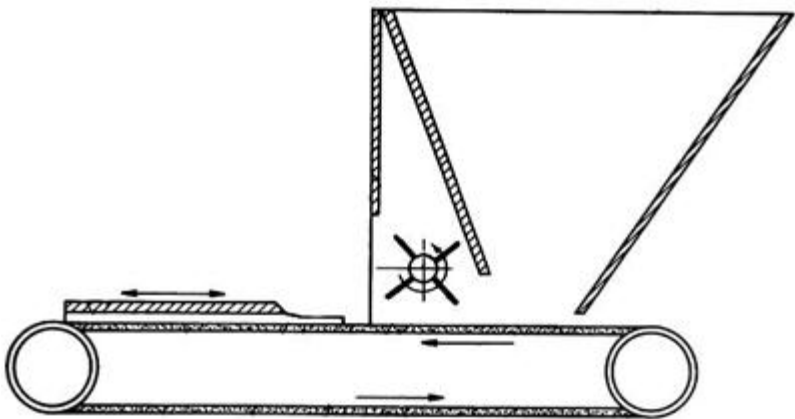
using belt or chain conveyors

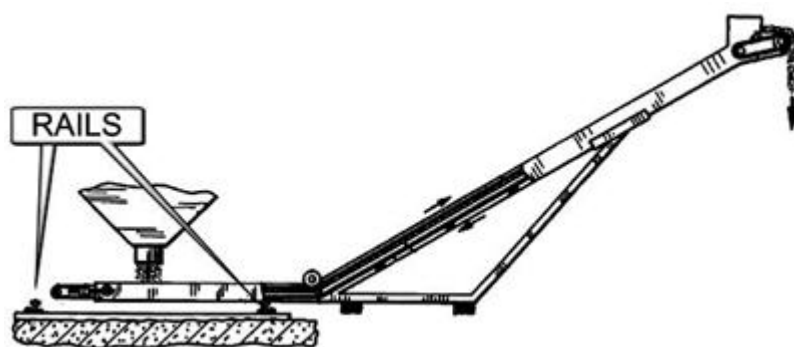
Definition statement

This place covers:

For example: mobile frames to put UNDER the container

Illustrative examples of subject matter classified in this group:





B65G 65/425

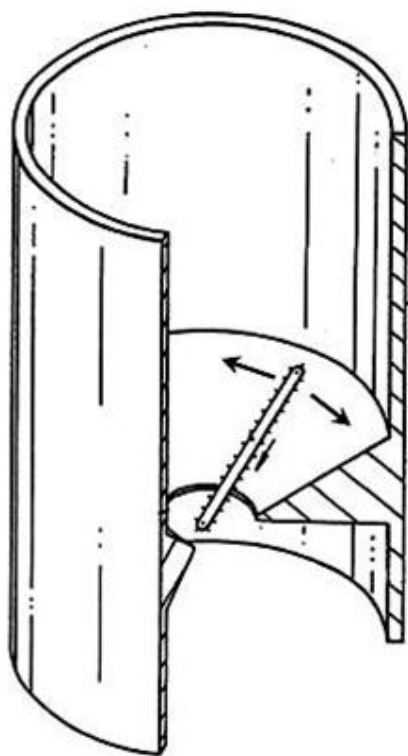
{arranged to be movable}

Definition statement

This place covers:

Movable on the bottom inside the container

Illustrative example of subject matter classified in this group:



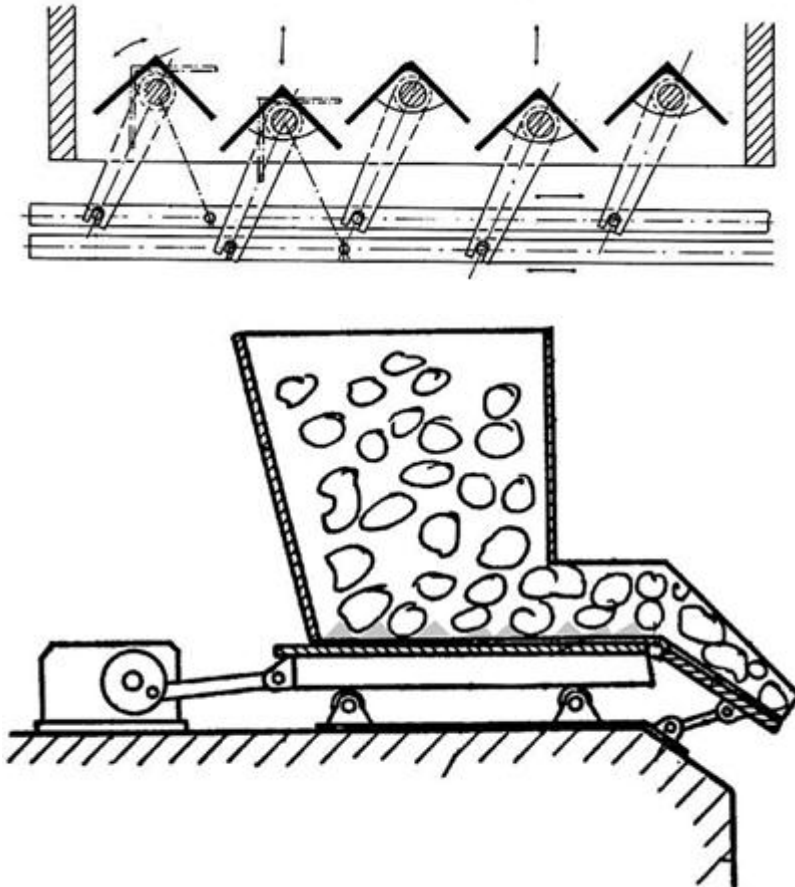
B65G 65/44

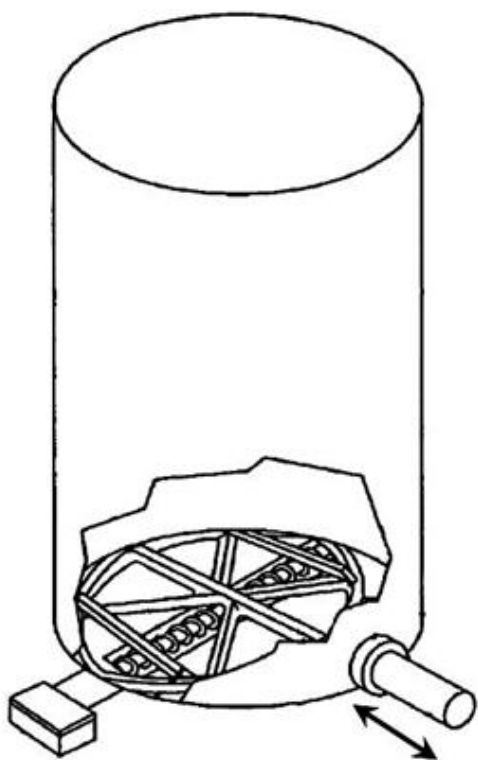
using reciprocating conveyors, e.g. jiggging conveyors

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Reciprocating along a vertical axis	B65G 65/4836
Bridge preventing means	B65D 88/66

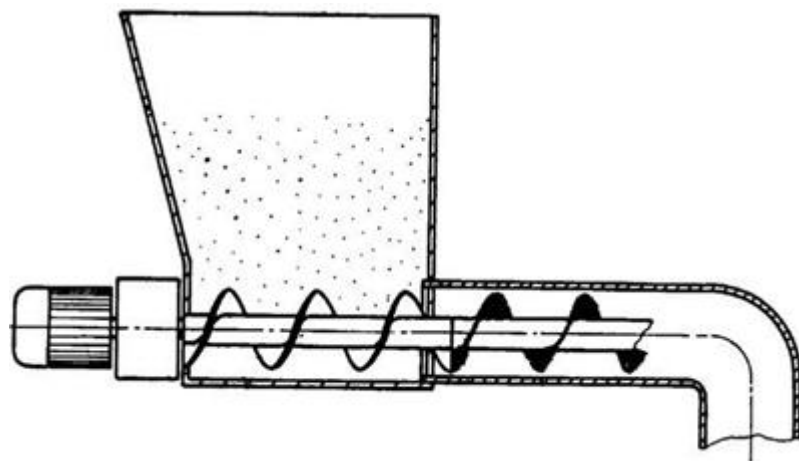
B65G 65/46

using screw conveyors

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Preventing bridge	B65D 88/68
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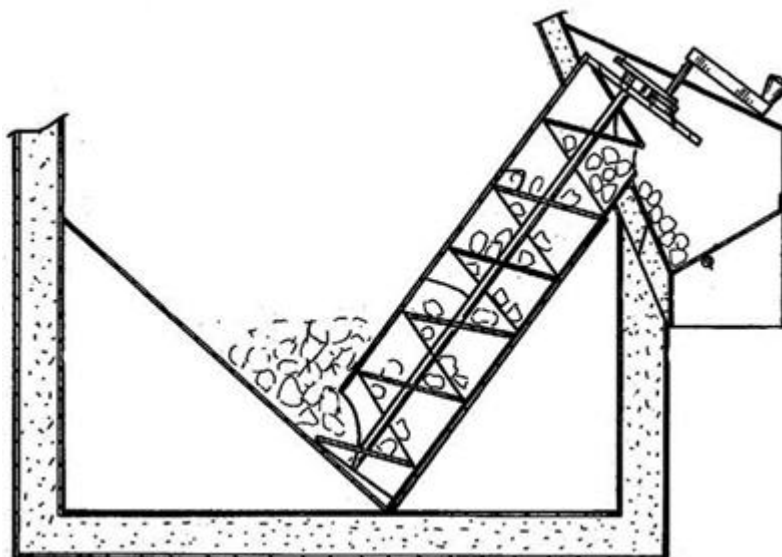
B65G 65/463

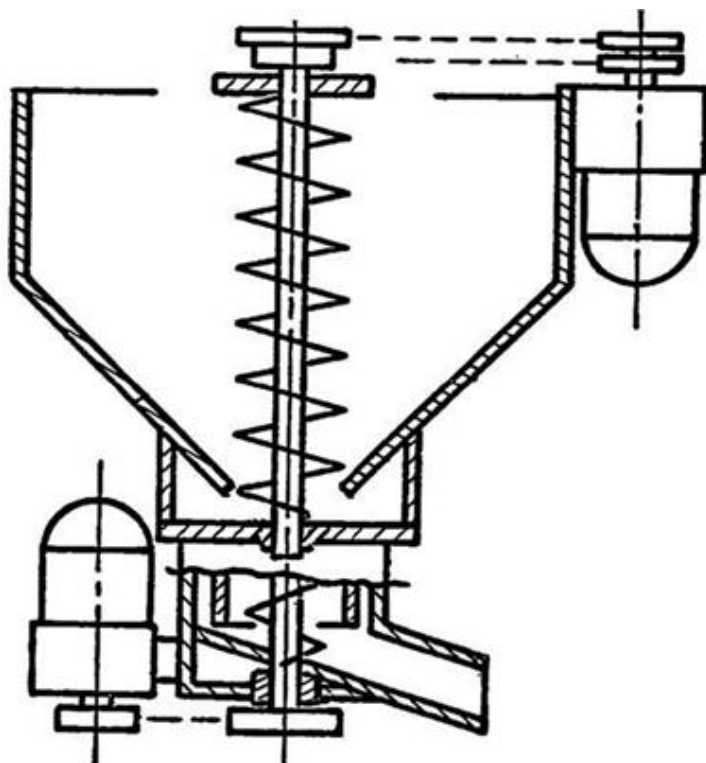
{arranged vertically or substantially vertically within the container
([B65G 65/466](#) takes precedence)}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





References

Limiting references

This place does not cover:

Arranged to be movable	B65G 65/466
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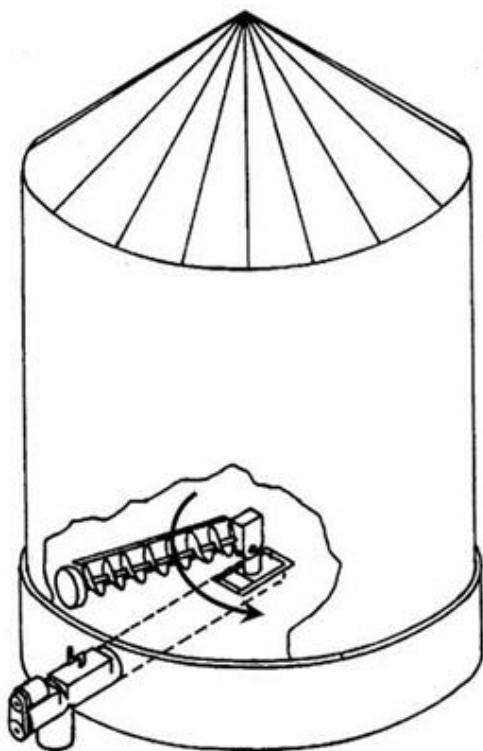
B65G 65/466

{arranged to be movable}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



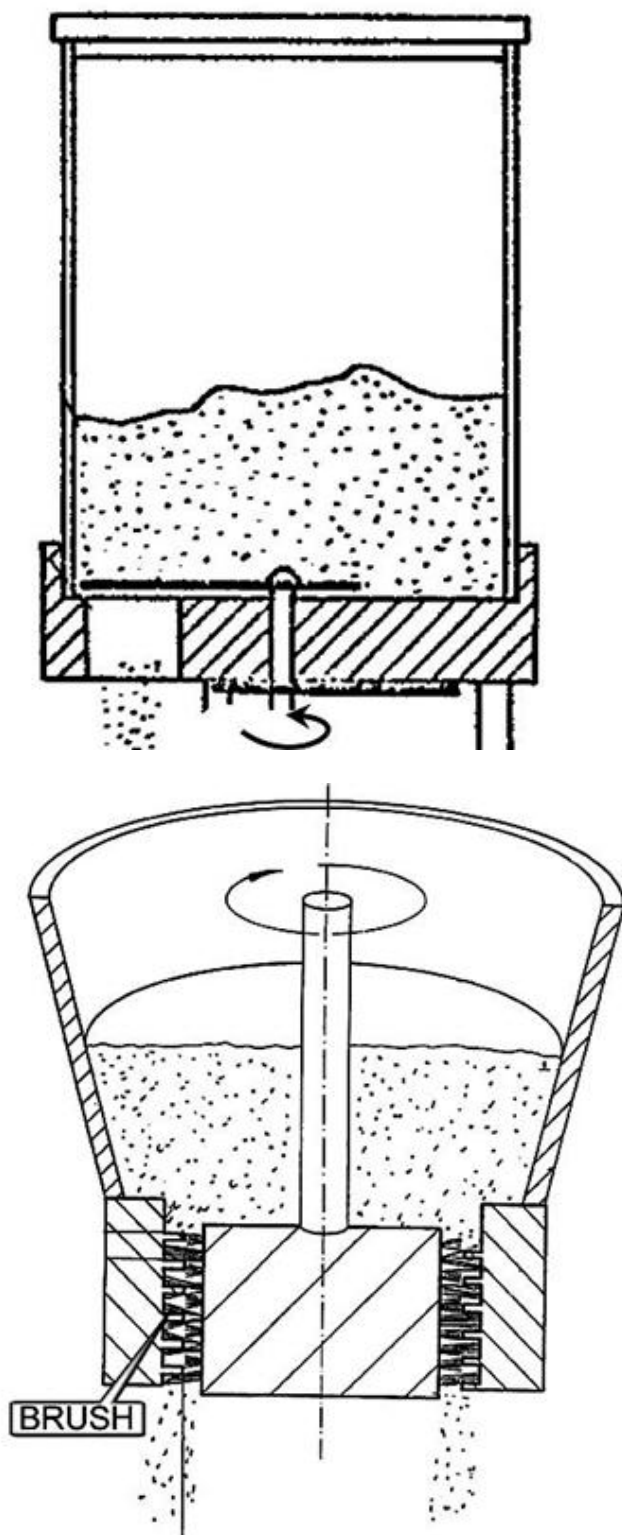
B65G 65/4809

{rotating about a substantially vertical axis}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bridge preventing	B65D 88/68
-------------------	----------------------------

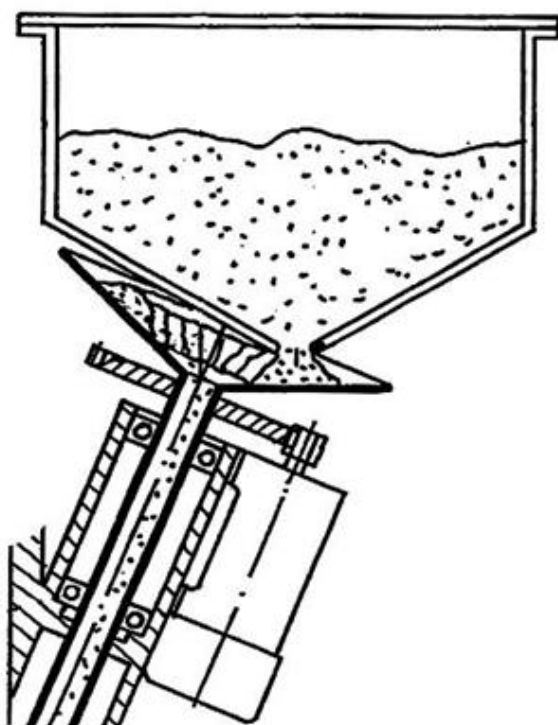
B65G 65/4818

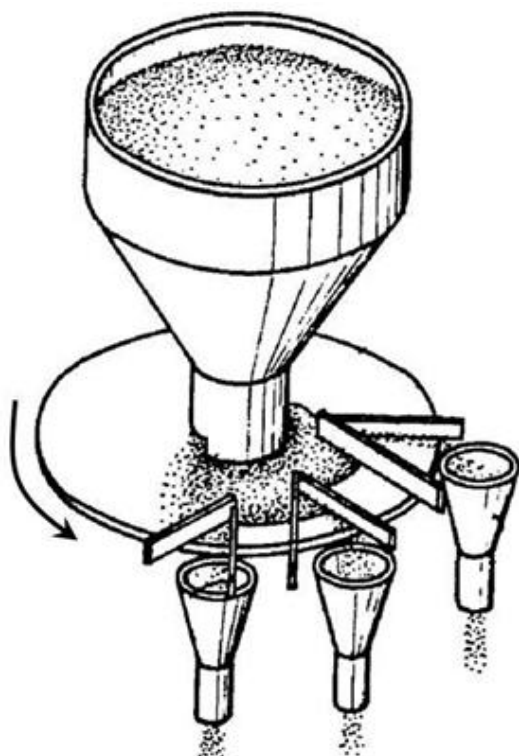
{and having the form of rotating tables or pans}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





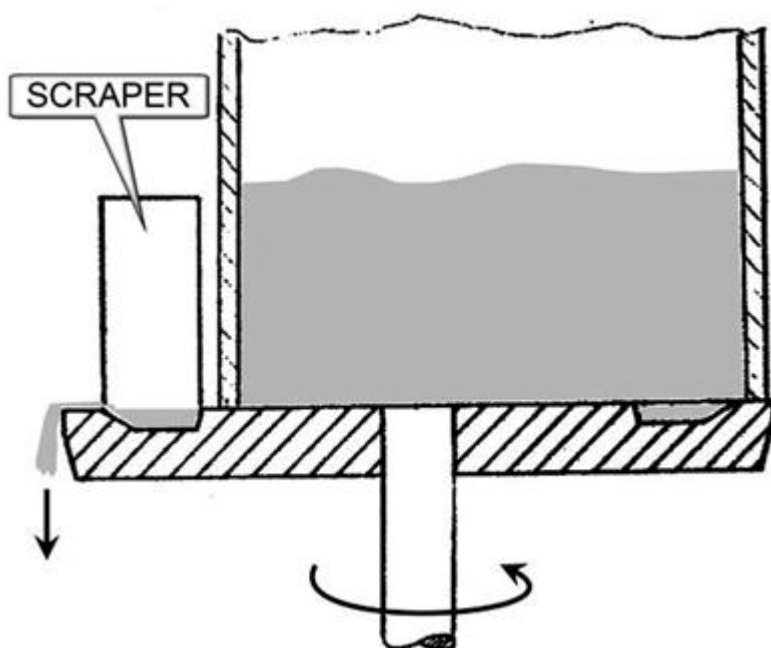
B65G 65/4827

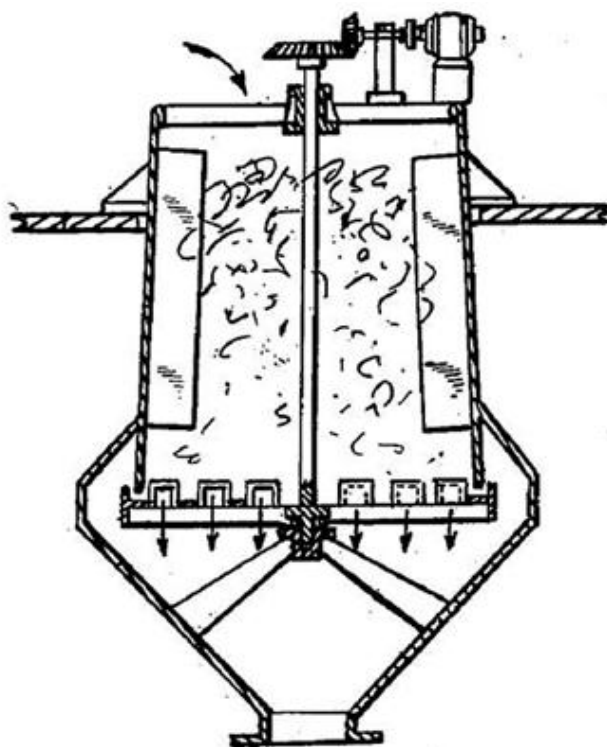
{with particular surface features, e.g. ribs, roughening}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mechanical projectors for articles or solid materials, comprising discs, drums, or like rotary impellers	B65G 31/04
Through which material passes	B65G 65/4872

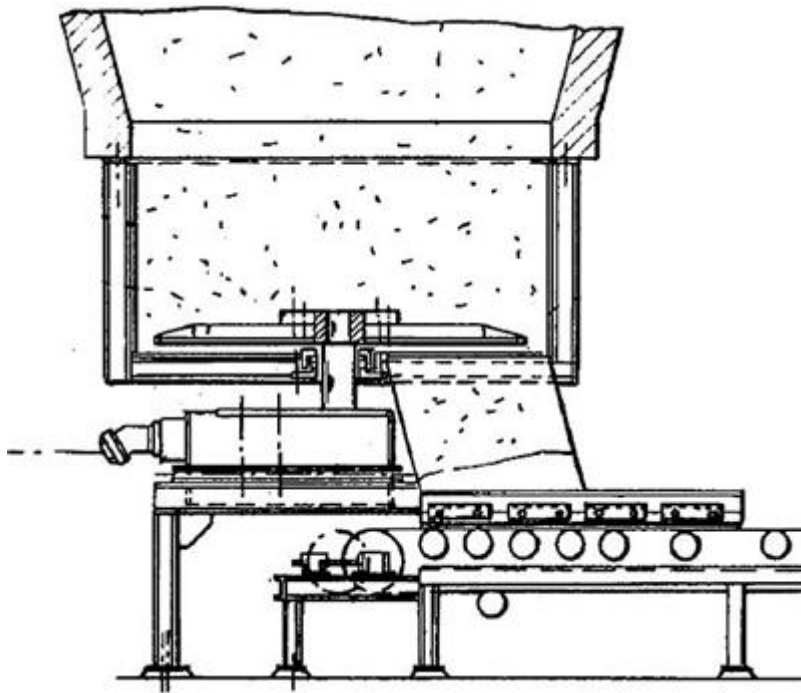
B65G 65/4836

{and moving material over a stationary surface, e.g. sweep arms or wheels}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References*****Informative references***

Attention is drawn to the following places, which may be of interest for search:

Through which material passes	B65G 65/4872
-------------------------------	------------------------------

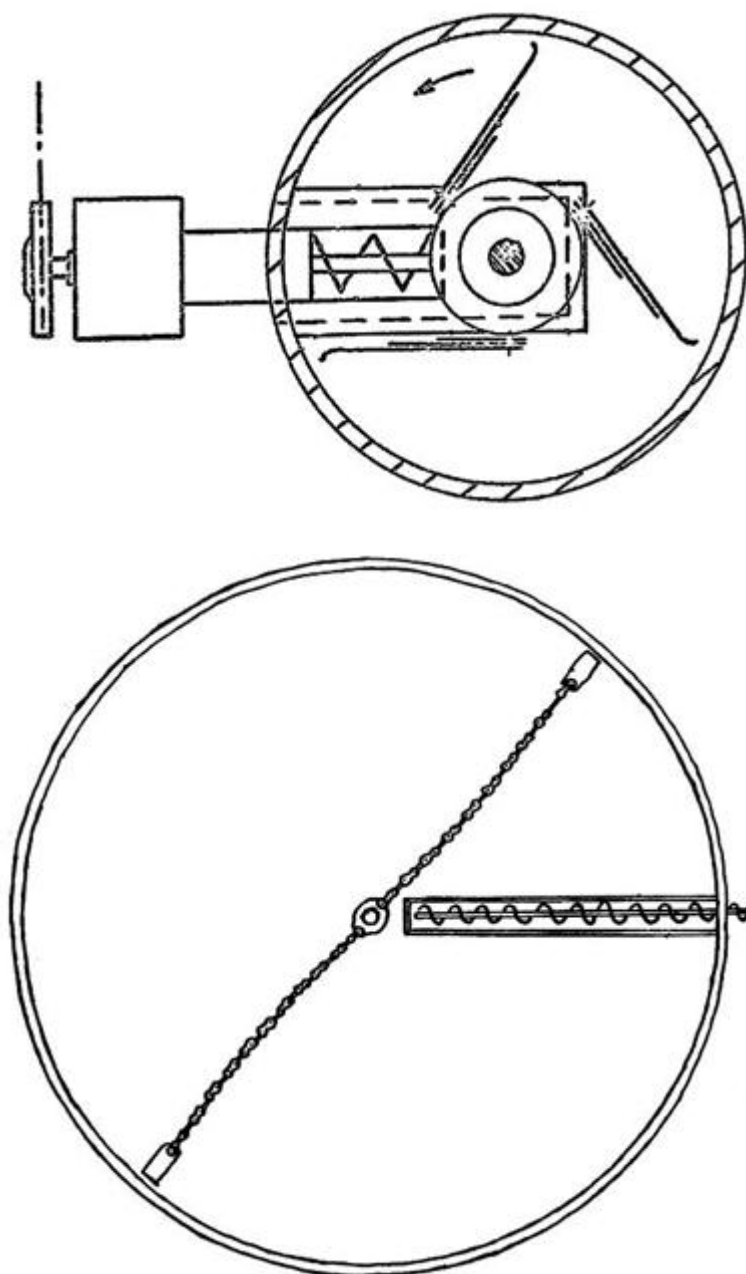
B65G 65/4845

{flexible, e.g. chains, cables, spring arms}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



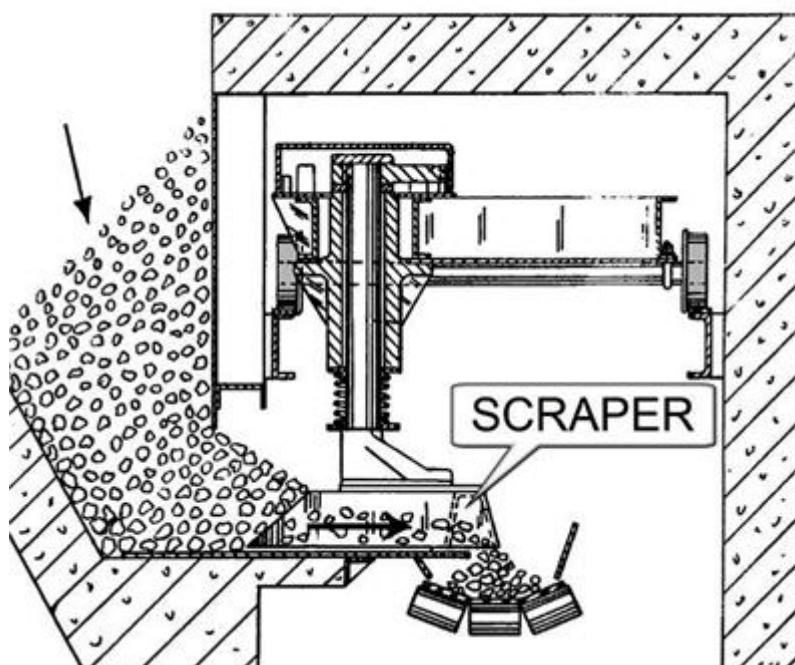
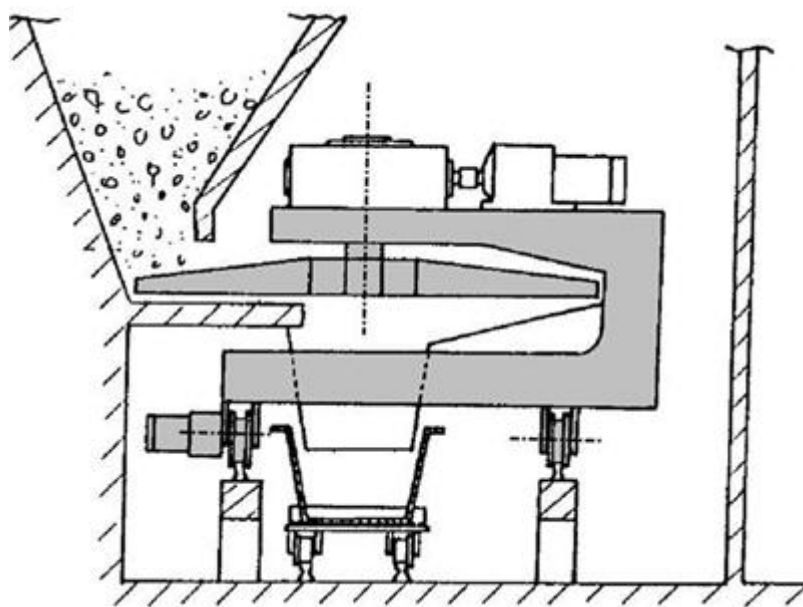
B65G 65/4854

{mounted on a carriage, e.g. for movement along slit-like outlets}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Inclined surface, scrapers	B65G 65/44
----------------------------	----------------------------

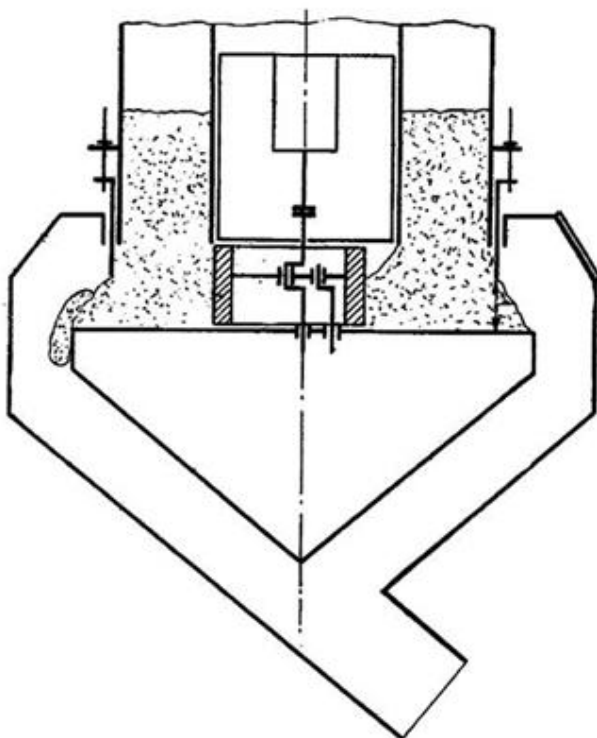
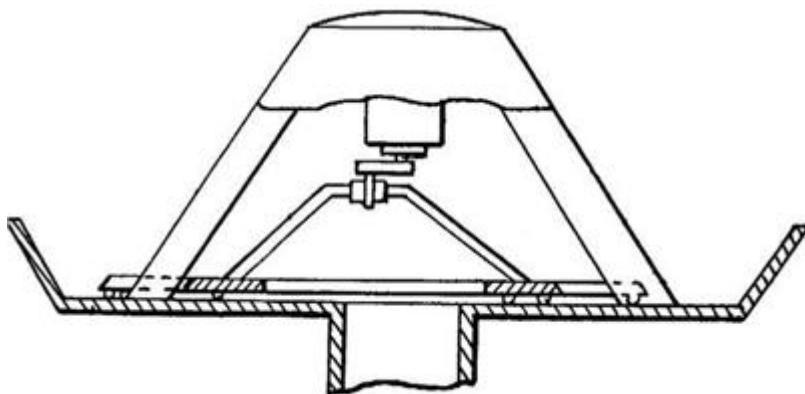
B65G 65/4863

{by means of eccentric motion}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



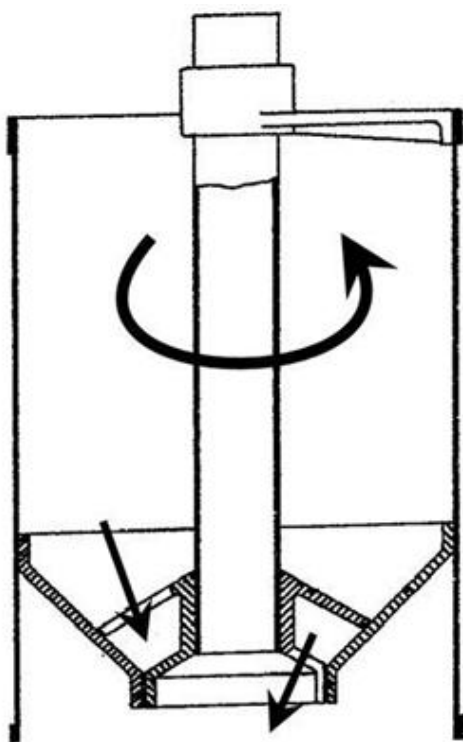
B65G 65/4872

{through which material passes, e.g. fan-like wheels}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

When the material weight is on the rotating member	B65G 65/4827
--	------------------------------

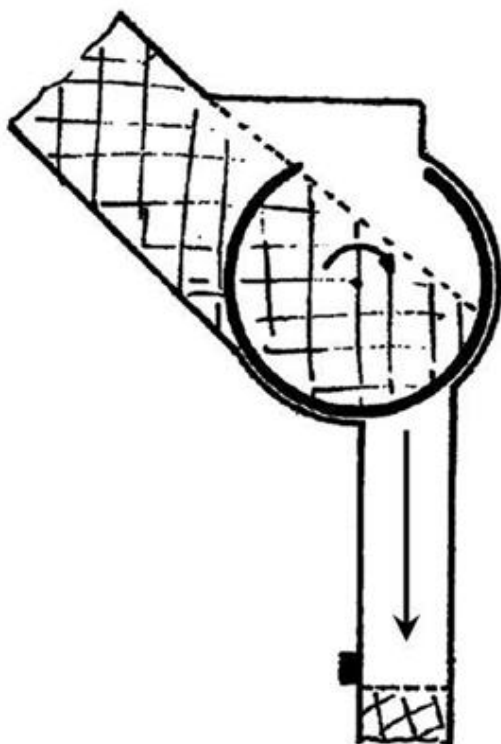
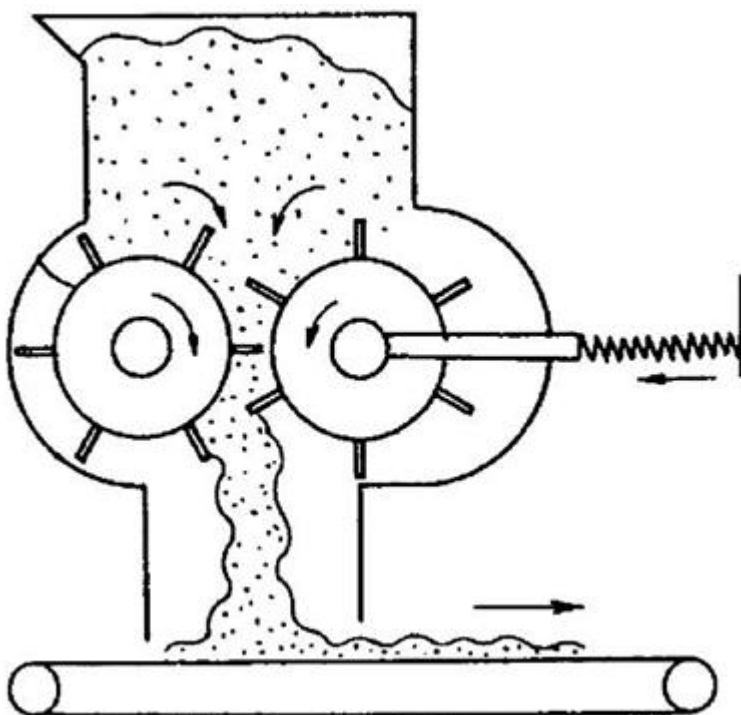
B65G 65/4881

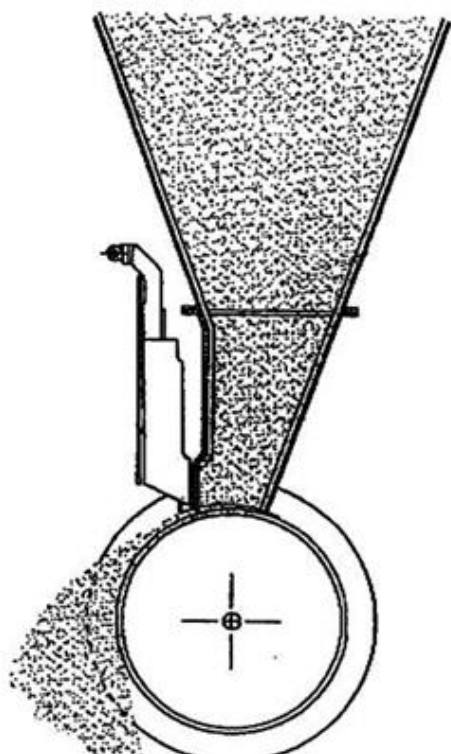
{rotating about a substantially horizontal axis}

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:





References

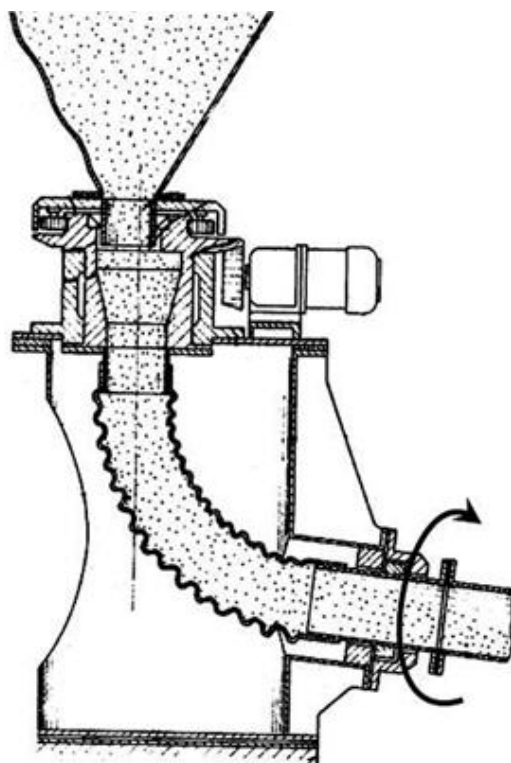
Informative references

Attention is drawn to the following places, which may be of interest for search:

With pneumatic conveyor	B65G 53/4633
-------------------------	------------------------------

B65G 65/489**{in the form of rotating tubular chutes}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 67/00**

Loading or unloading vehicles (by means incorporated in the vehicles [B60-B64](#), e.g., [B60P 1/00](#), [B61D 9/00](#), [B63B 27/00](#), [B64D 9/00](#); ground or aircraft-carrier-deck installations for aircraft [B64F 1/32](#))

References**Limiting references***This place does not cover:*

By means incorporated in the vehicles	B60 - B64
Ground or aircraft-carrier-deck installations for aircraft	B64F 1/32

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Transferring refuse between vehicles or containers	B65F 9/00
--	---------------------------

Informative references

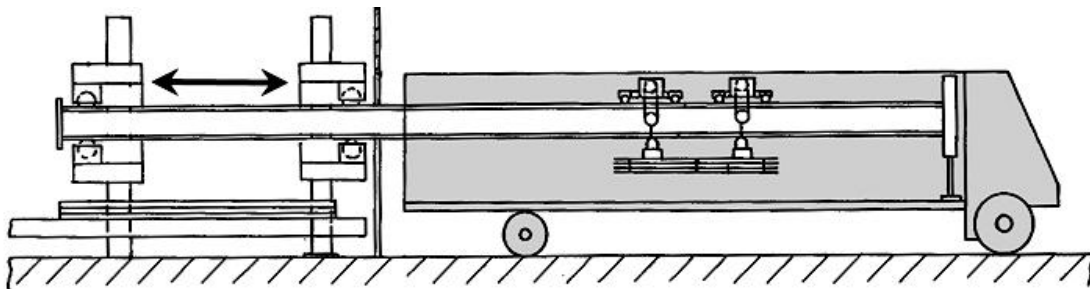
Attention is drawn to the following places, which may be of interest for search:

Other article loading or unloading devices	B65G 2814/0311
With vertically reciprocating platforms	B65G 2814/0313
Loading or unloading means	B65G 2814/0347 - B65G 2814/0395
For ships	B65G 2814/0397
For aircraft	B65G 2814/0398

B65G 67/02**Loading or unloading land vehicles****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



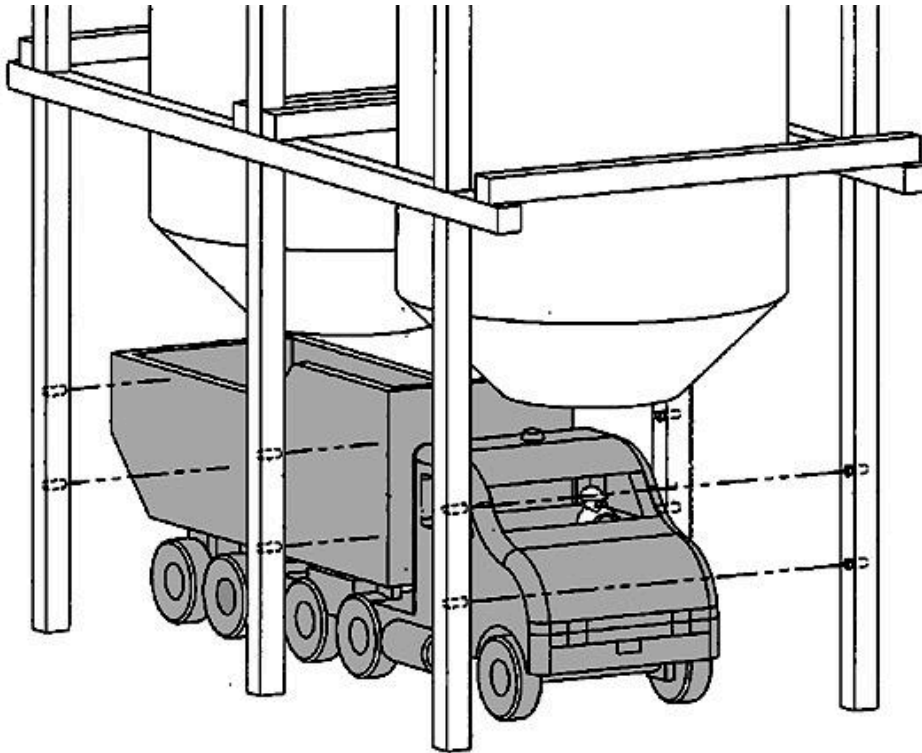
B65G 67/04

**Loading land vehicles {(loading or unloading boats to or from land vehicles
[B60P 3/10](#))}**

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

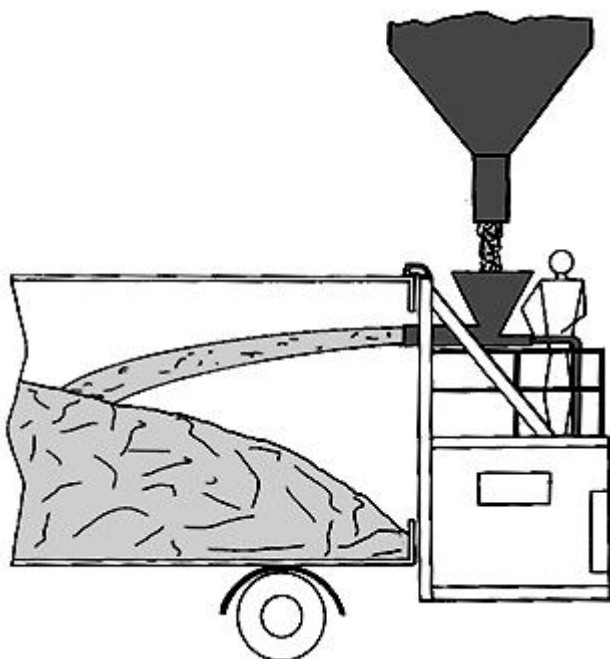
Attention is drawn to the following places, which may be of interest for search:

Optimal loading balance or loading pattern	G06Q 10/08
--	----------------------------

B65G 67/06**Feeding articles or materials from bunkers or tunnels****Definition statement**

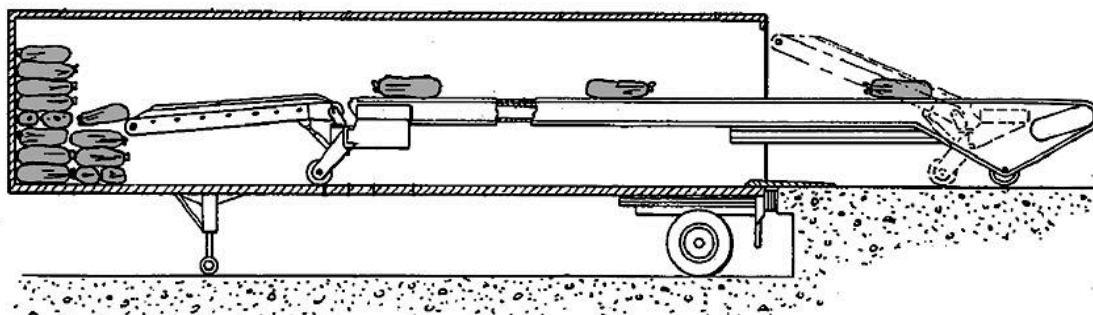
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 67/08****using endless conveyors****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Telescopic	B65G 21/14
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For airplanes

[B64F 1/32](#)

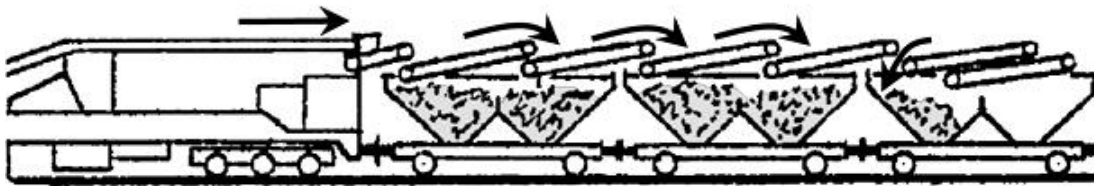
B65G 67/10

using conveyors covering the whole length of vehicle trains

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



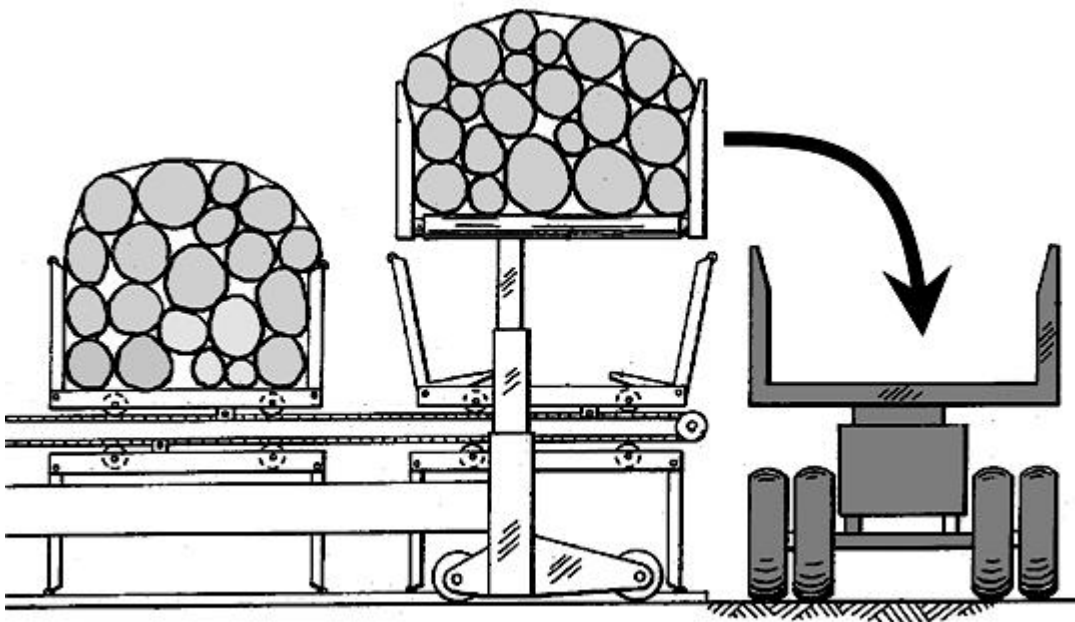
B65G 67/12

Loading elongated articles, e.g. rails, logs

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

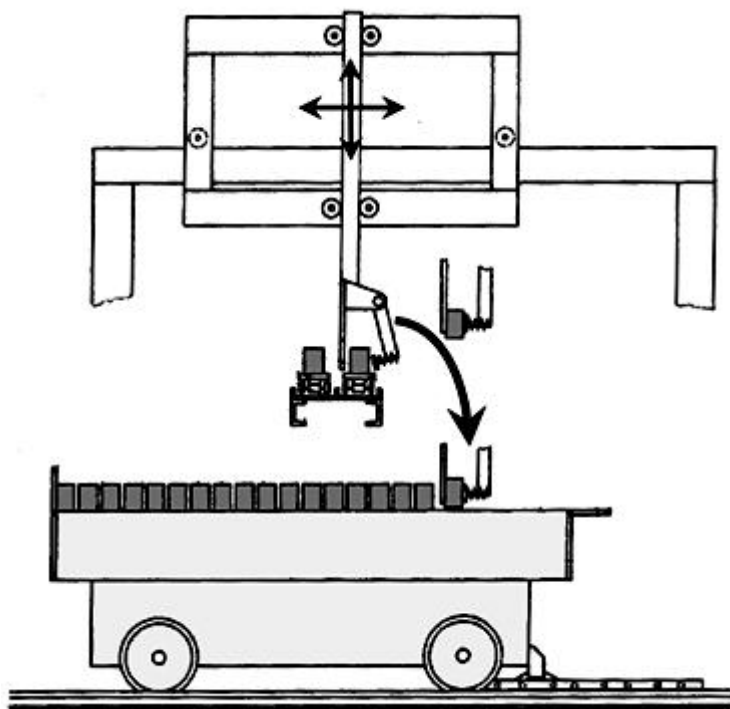


Special rules of classification

Indexing Code: [B65G 2201/0217](#)

B65G 67/14**Loading hardened bricks, briquettes, or the like****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For ceramic mouldings	B65G 49/08
-----------------------	----------------------------

B65G 67/16**Loading coke-oven products (discharging coke-ovens [C10B 33/00](#))****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Skip loading	B66B 17/26
--------------	----------------------------

B65G 67/18**Refuelling locomotives with solid fuels****References****Informative references**

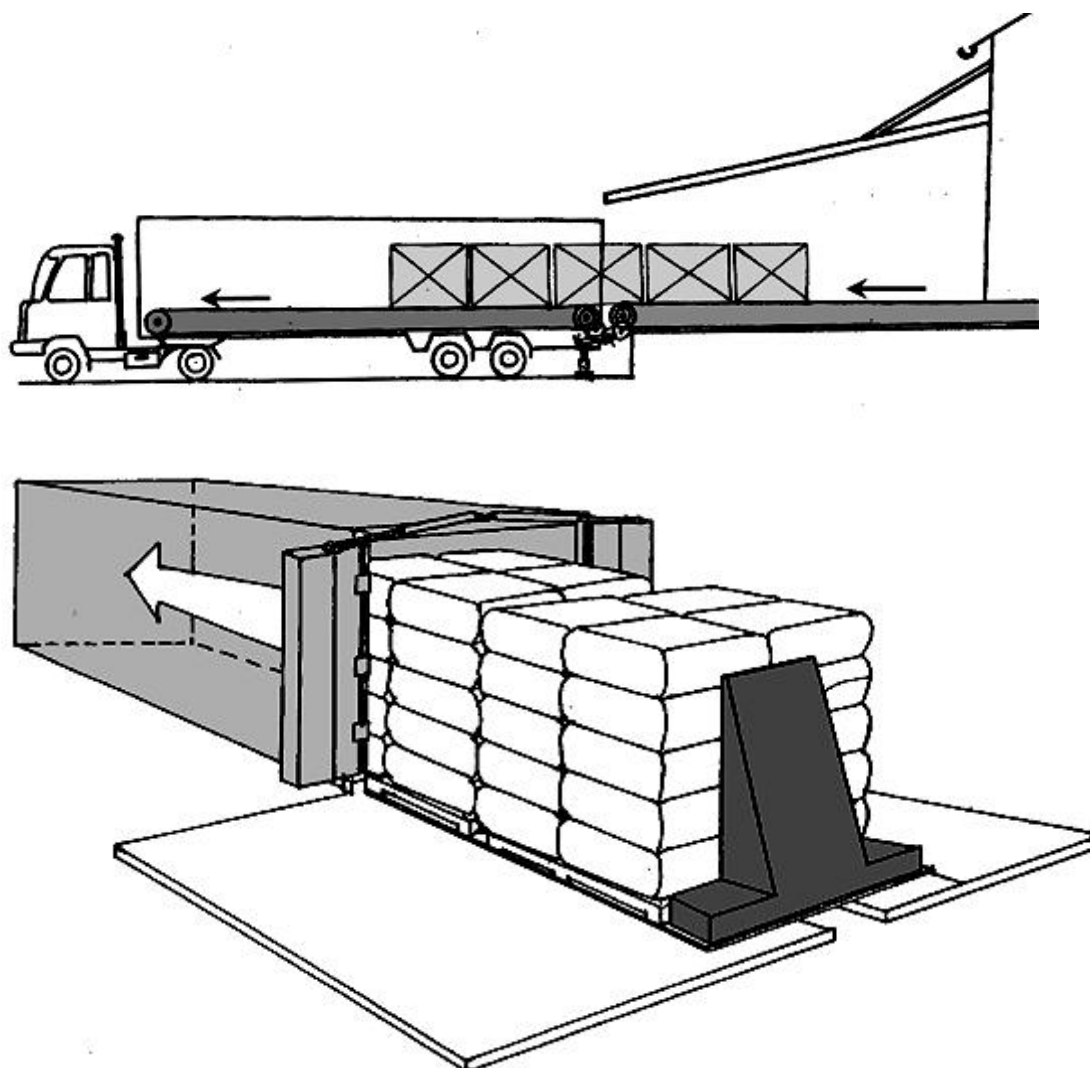
Attention is drawn to the following places, which may be of interest for search:

Servicing locomotives	B61K 11/02
Skip loading	B66B 17/26

B65G 67/20**Loading covered vehicles****Definition statement**

This place covers:

Illustrative examples of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rollerways with inflatable lifting means	B65G 13/12
Equipment for handling freight	B64D 9/00

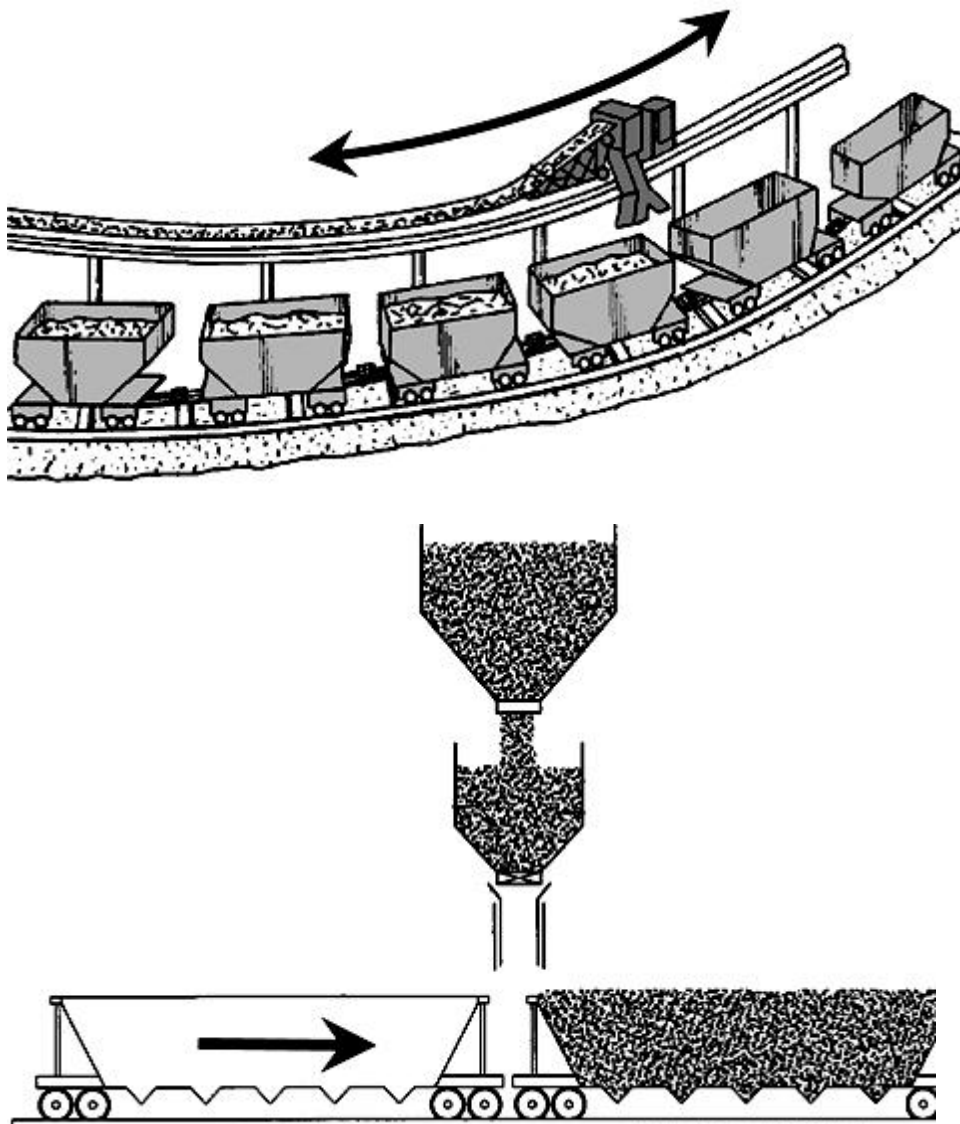
B65G 67/22

Loading moving vehicles

Definition statement

This place covers:

Illustrative examples of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Using conveyors covering the whole length of vehicle trains	B65G 67/10
Spreading out the materials conveyed by relatively moving an endless feeding means	B65G 69/0408

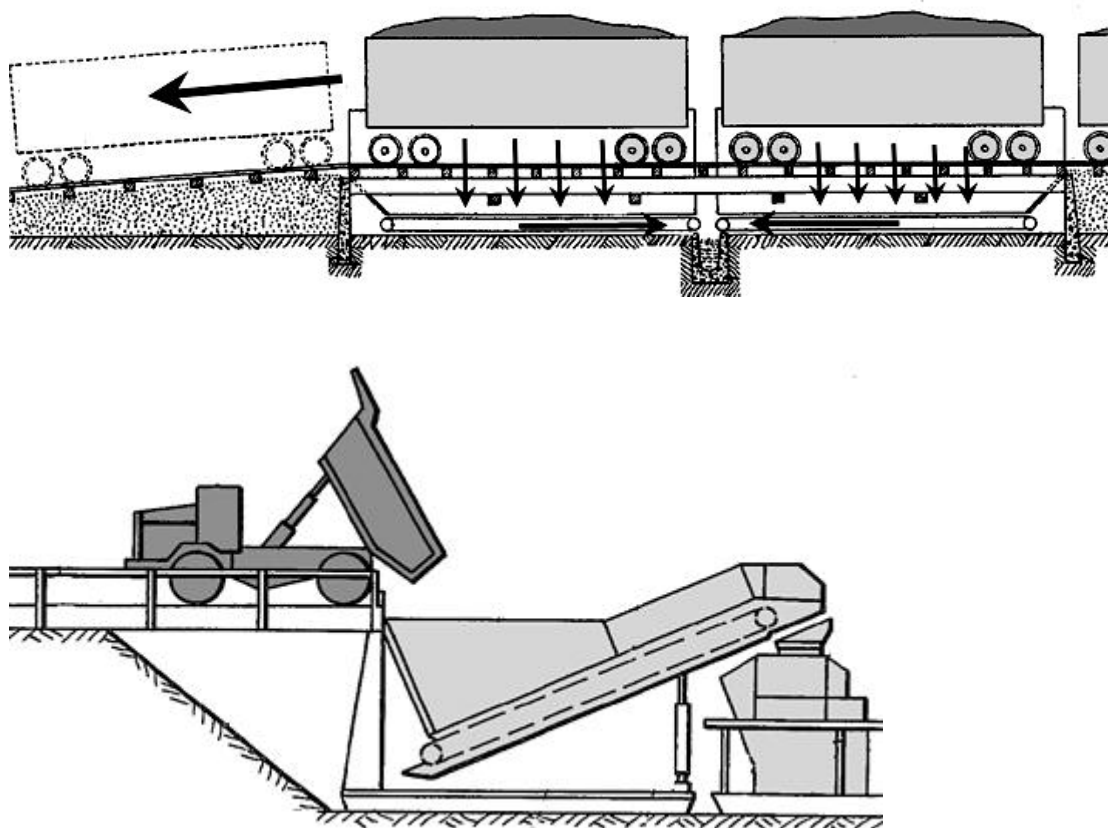
B65G 67/24

Unloading land vehicles

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Controlled unloading	B65G 47/19
Loading covered vehicles	B65G 67/20

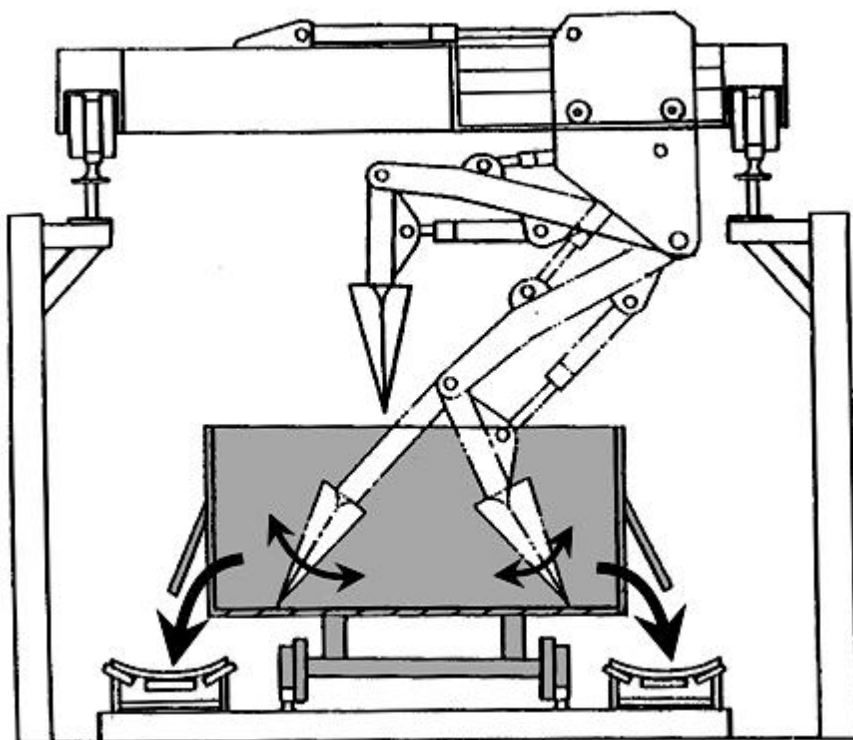
B65G 67/26

using rakes or scrapers

Definition statement

This place covers:

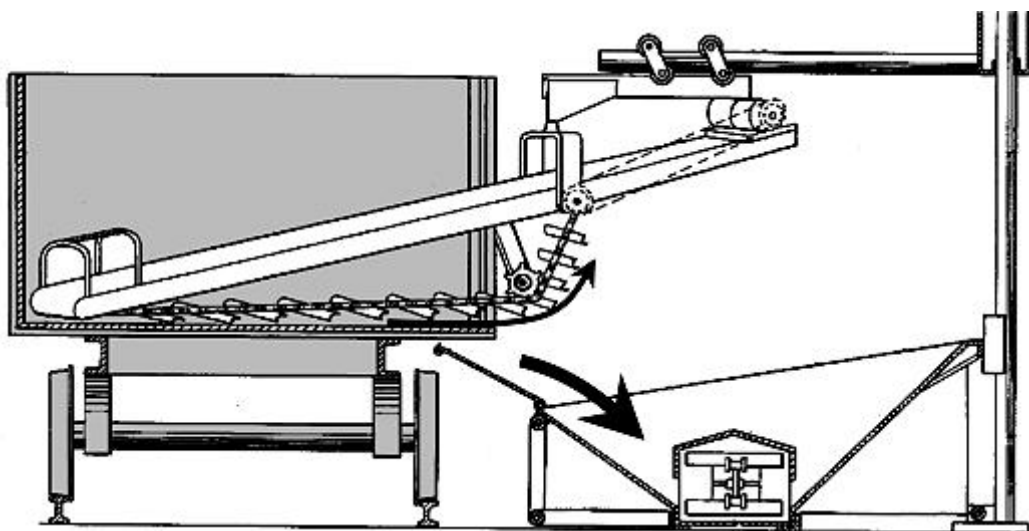
Illustrative example of subject matter classified in this group:



B65G 67/28**External transverse blades attached to endless conveyors****Definition statement**

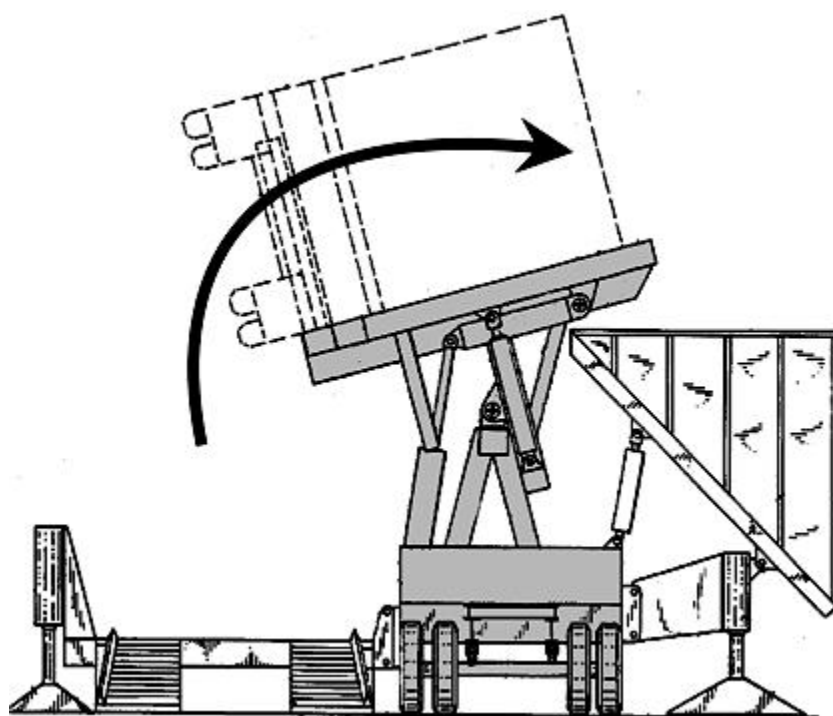
This place covers:

Illustrative example of subject matter classified in this group:

**B65G 67/30****using transportable tipping apparatus****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



Special rules of classification

For [B65G 67/30](#)-[B65G 67/56](#) see Indexing Codes [B65G 2814/0356](#) - [B65G 2814/0395](#).

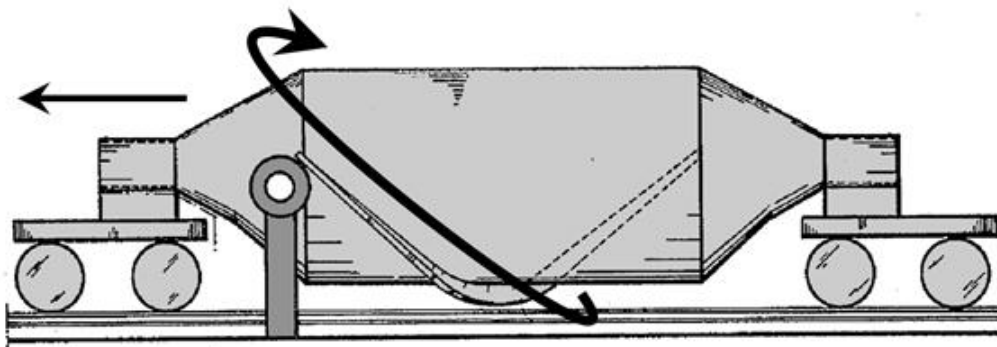
B65G 67/32

using fixed tipping installations

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 67/34**

Apparatus for tipping wagons or mine cars (inverting wagons [B65G 67/48](#))

References**Limiting references**

This place does not cover:

Inverting wagons	B65G 67/48
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Platform-lifts with tiltable platforms	B66F 7/22
--	---------------------------

B65G 67/36

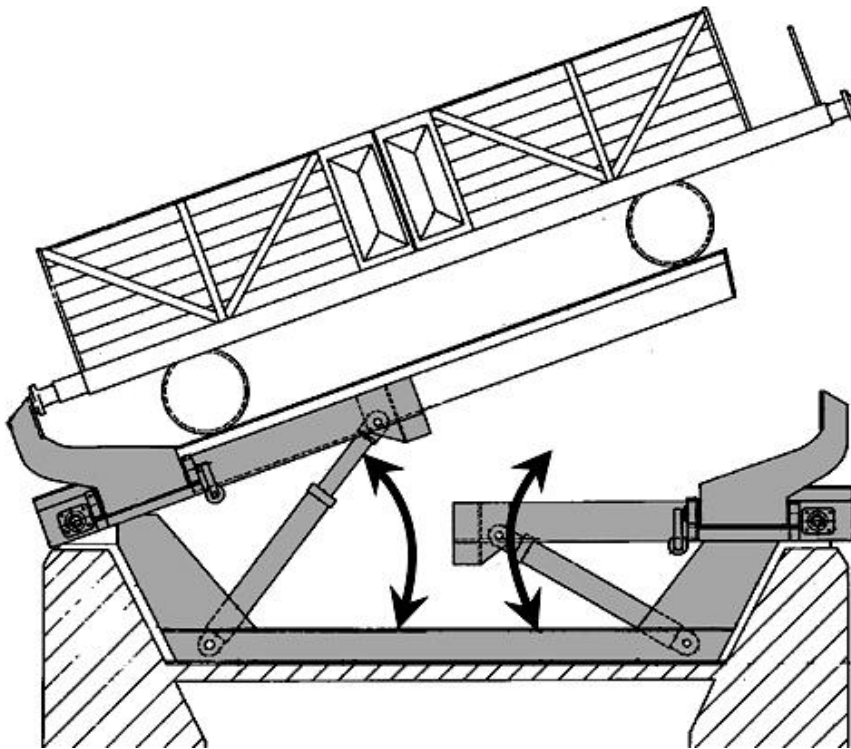
endwise

Definition statement

This place covers:

Towards both ends (otherwise [B65G 67/40](#))

Illustrative example of subject matter classified in this group:



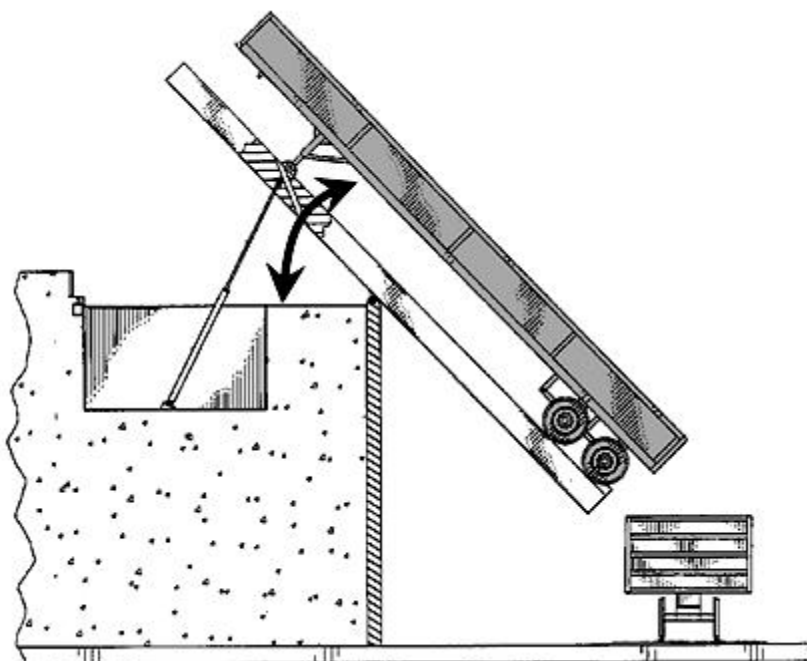
B65G 67/40

toward one end only

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Endwise	B65G 67/36
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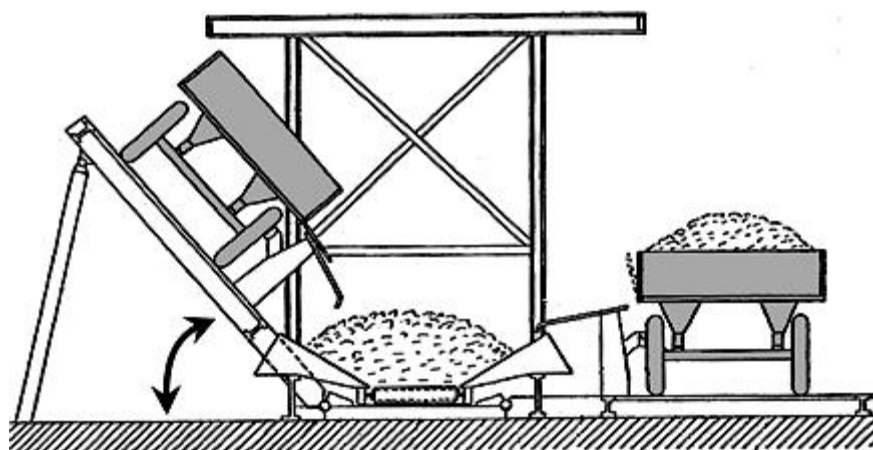
B65G 67/42

sideways

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Lifting and tipping	B65G 67/46
Rotating 360°	B65G 67/50

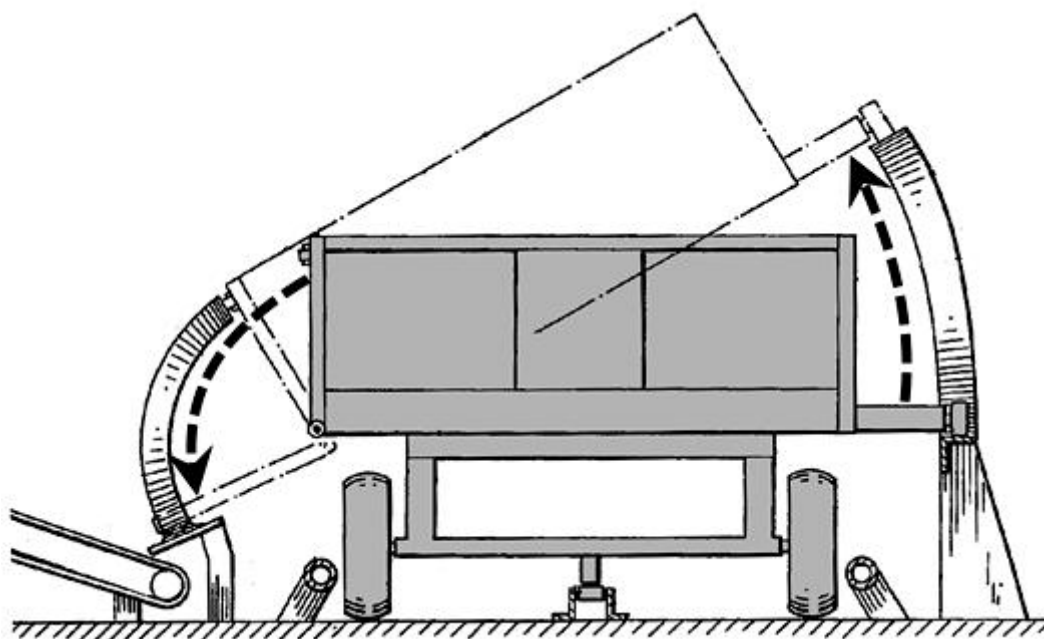
B65G 67/44

by passing the vehicles over a stretch of transversely-inclined rails

Definition statement

This place covers:

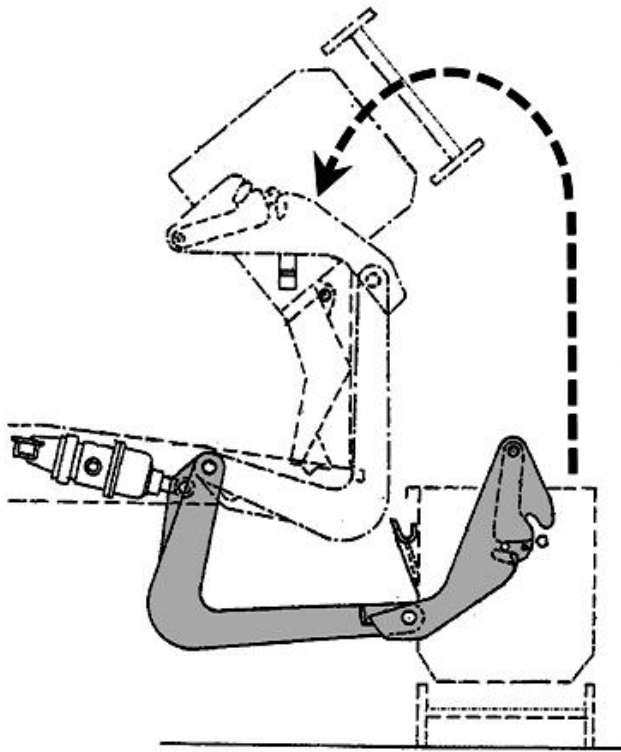
Illustrative example of subject matter classified in this group:



B65G 67/46**Apparatus for lifting and tilting****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 67/48****Vehicle tipplers****References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

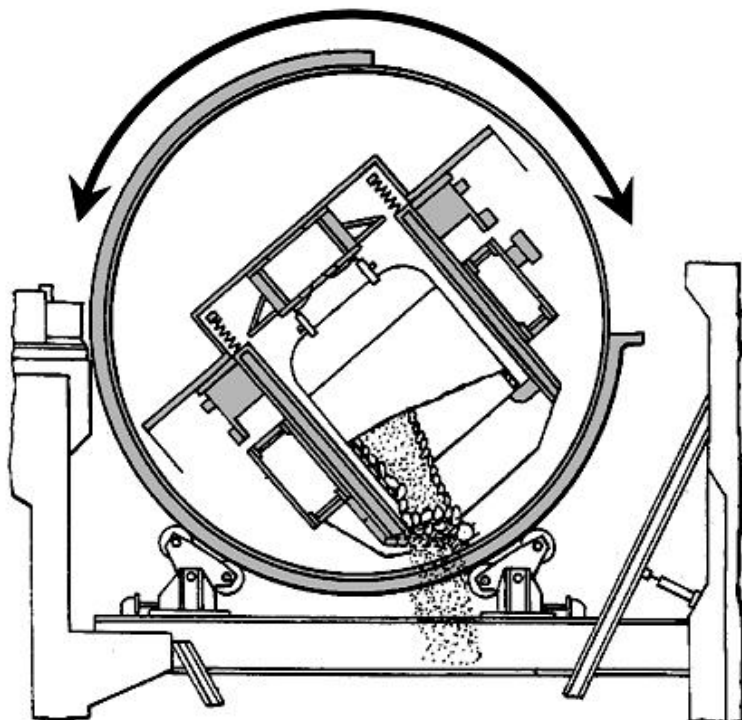
Devices for washing or cleaning railroad vehicles	B60S
---	----------------------

B65G 67/50**Rotary vehicle tipplers, i.e. rotating through 360 degrees****Definition statement**

This place covers:

Rotation about one axis (ring-construction ostly)

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Vehicle-locking means	B65G 67/54
Vehicle and tippler interlocking controls	B65G 67/56

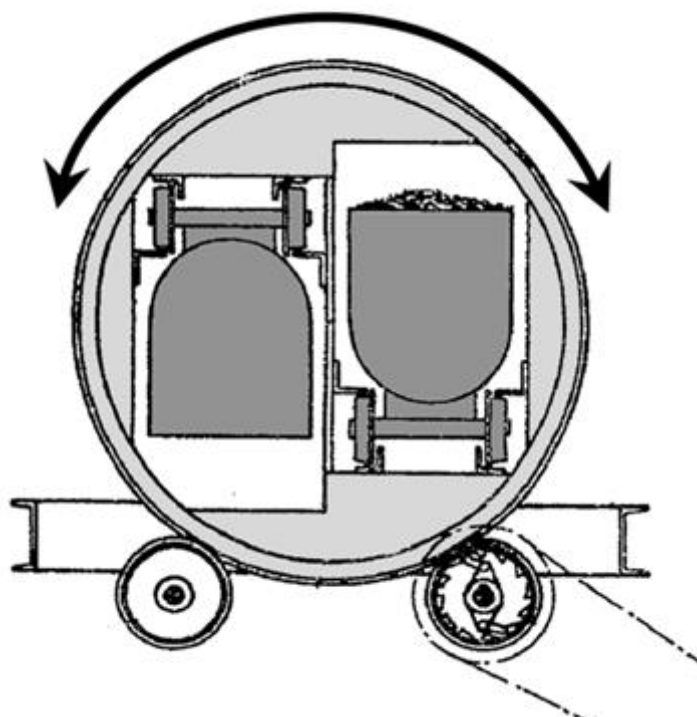
B65G 67/52

having several decks

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



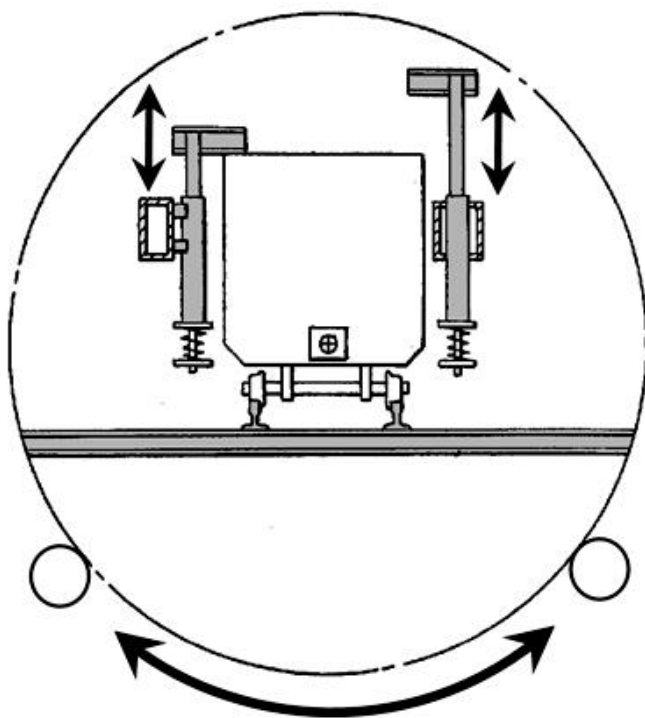
B65G 67/54

Vehicle-locking means

Definition statement

This place covers:

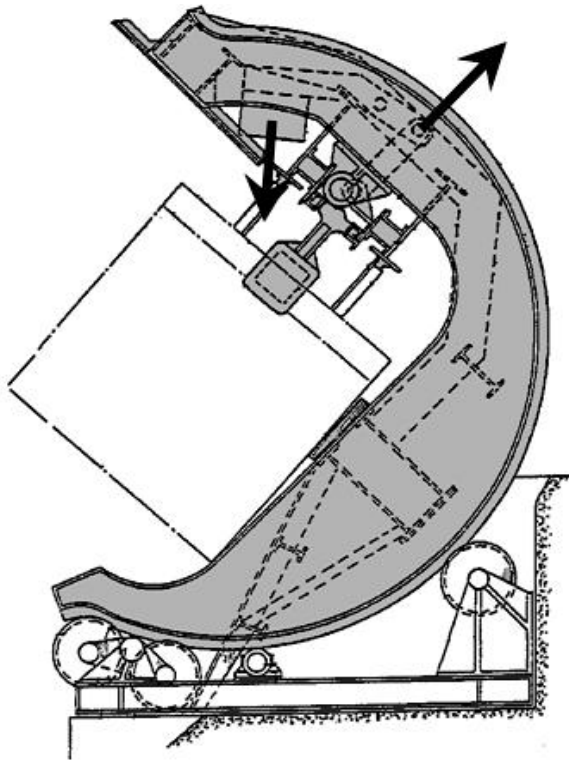
Illustrative example of subject matter classified in this group:



B65G 67/56**Vehicle and tippler interlocking controls****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**Special rules of classification**

Indexing Code: [B65G 2814/0362](#)

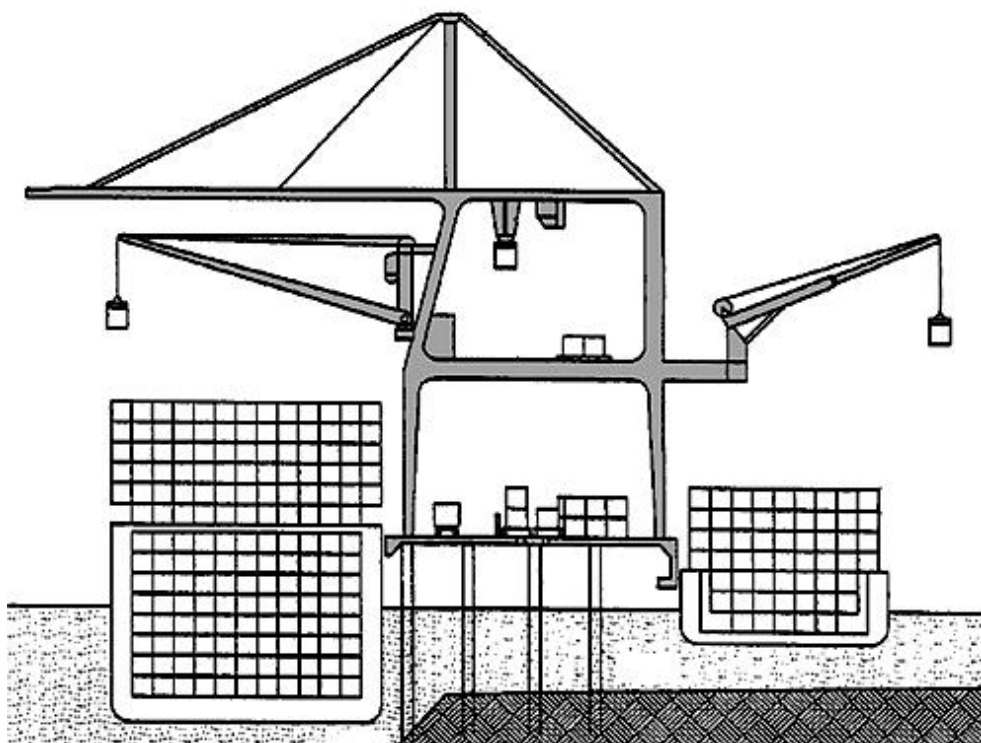
B65G 67/603

{using devices specially adapted for articles}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Transferring or trans-shipping at storage areas, railway yards, harbours; Marshalling yard installations

B65G 63/00

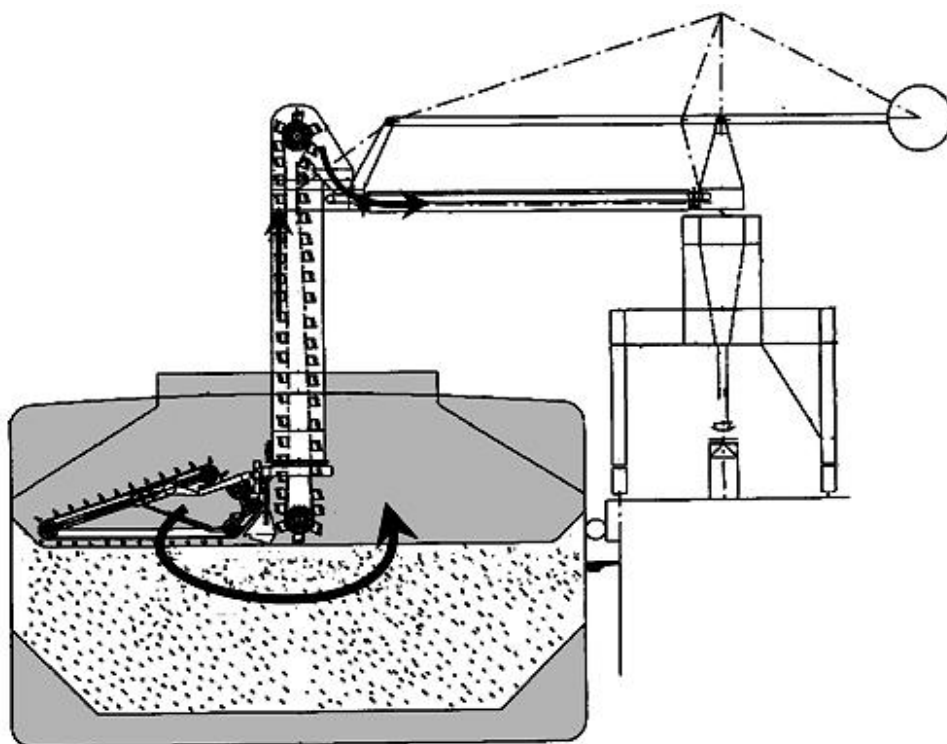
B65G 67/606

{using devices specially adapted for bulk material}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Bucket conveyors	B65G 17/126
Endless scraping or elevating pick-up conveyors	B65G 65/06

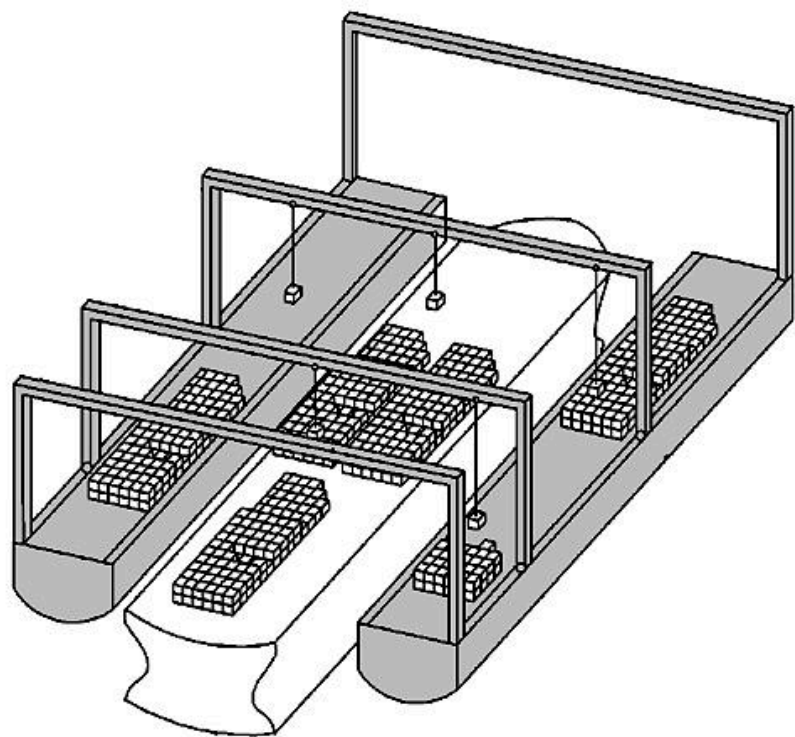
B65G 67/62

using devices influenced by the tide or by the movements of the ship, e.g. devices on pontoons

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Horizontal loading or unloading platforms	B65G 69/22
Loading ramps	B65G 69/28

B65G 69/00

Auxiliary measures taken, or devices used, in connection with loading or unloading (by means incorporated in, or operatively associated with, conveyors [B65G 47/00](#); preventing fire [A62C 3/00](#); in vehicles, see the relevant subclasses, e.g., [B60P 1/58](#), [B61D 7/32](#), [B62D 33/00](#), [B63B 25/00](#), [B64D 9/00](#))

References***Limiting references***

This place does not cover:

By means incorporated in, or operatively associated with, conveyors	B65G 47/00
Preventing fire	A62C 3/00
In vehicles	B60P 1/58 , B61D 7/32 , B62D 33/00 , B63B 25/00 , B64D 9/00

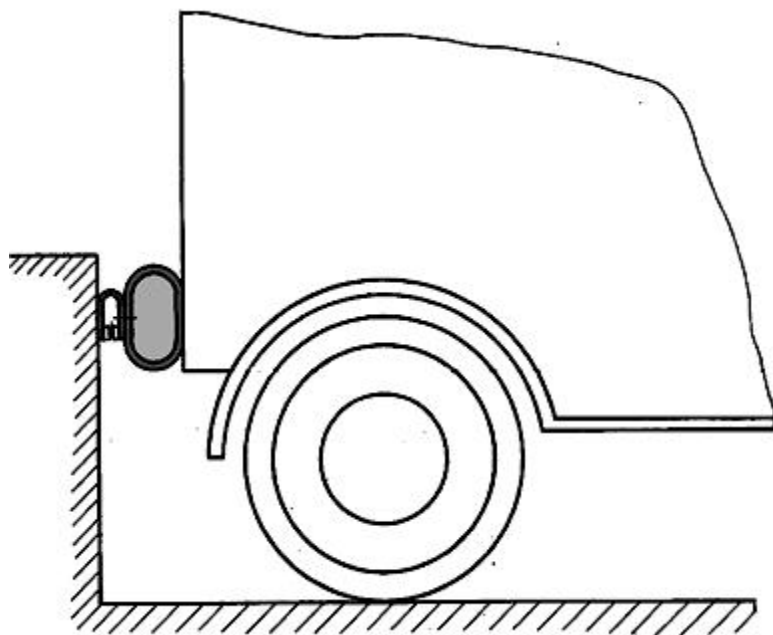
Informative references

Attention is drawn to the following places, which may be of interest for search:

Indexing Codes relating to loading or unloading articles or bulk materials	B65G 2814/00 - B65G 2814/0211
For spreading out the material over the whole surface to be loaded	B65G 2814/0241 - B65G 2814/0294
The walls being deformable	B65D 88/62

B65G 69/001**{Buffers for vehicles at loading stations}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For racks	B65G 1/02
Safety arrangements for slowing, redirecting or stopping errant vehicles; local protection	E01F 15/14
Fenders; fenders integral with waterborne vessels or specially adapted therefor	E02B 3/26

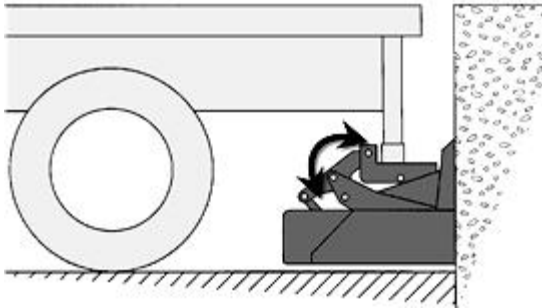
B65G 69/003

{Restraining movement of a vehicle at a loading station using means not being part of the vehicle}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

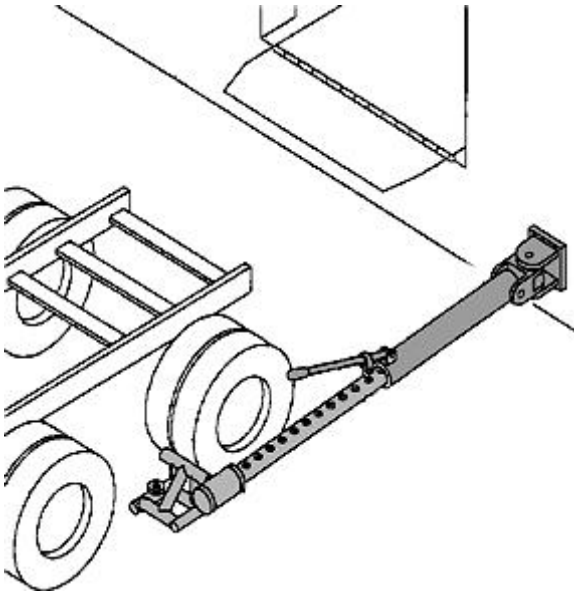
**B65G 69/005**

{the means engaging at least one wheel of the vehicle}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Electric devices on electrically-propelled vehicles for safety purposes; Monitoring operating variables	B60L 3/00
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Securing of load by preventing lateral movement of the load	B60P 7/0892
Wheel chocks	B60T 3/00

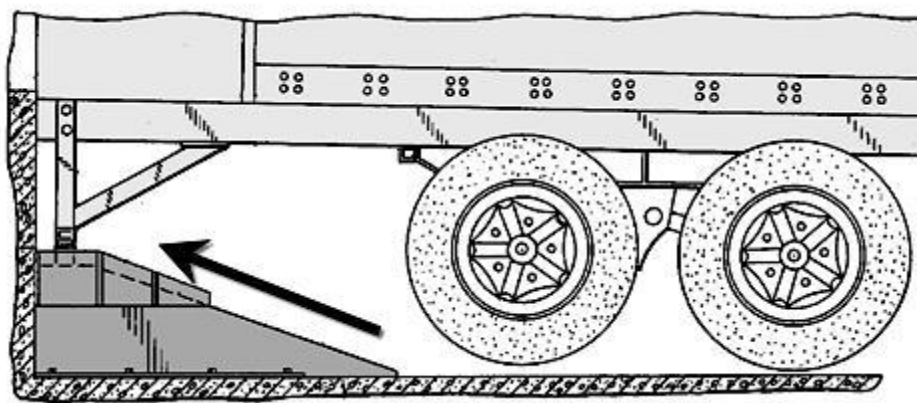
B65G 69/006

{Centring or aligning a vehicle at a loading station using means not being part of the vehicle}

Definition statement

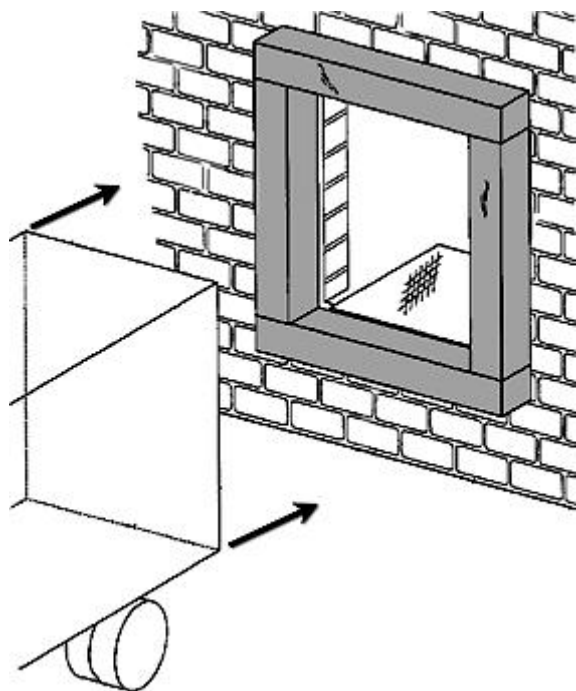
This place covers:

Illustrative example of subject matter classified in this group:



B65G 69/008**{Dock- or bumper-seals}****Definition statement***This place covers:*

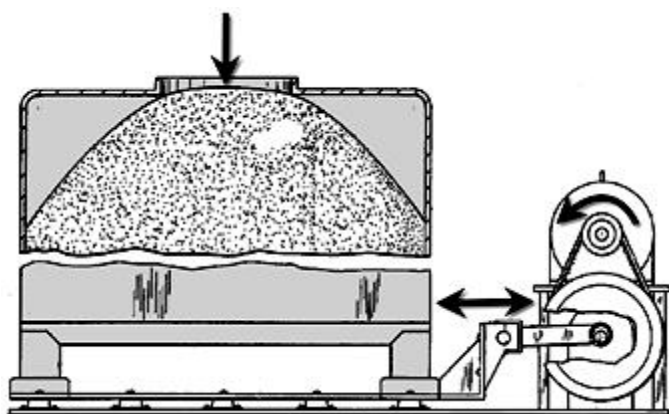
Illustrative example of subject matter classified in this group:

**B65G 69/02****Filling storage spaces as completely as possible, e.g. application of vibrators****Definition statement***This place covers:*

Only when the material is already in the container

Mainly: densifying/vibrators

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Spreading out the materials conveyed over the whole surface to be loaded; Trimming heaps of loose materials	B65G 69/04
Densifying using the feeding conveyor	B65G 69/20

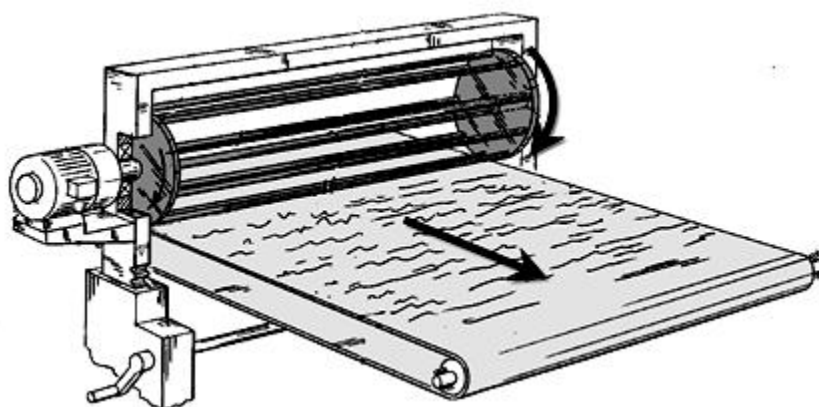
B65G 69/04

**Spreading out the materials conveyed over the whole surface to be loaded;
Trimming heaps of loose materials**

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Having means for controlling material flow	B65G 47/19
For a homogeneous pile	B65G 69/10
Distributing or orienting the particles or fibres	B27N 3/14

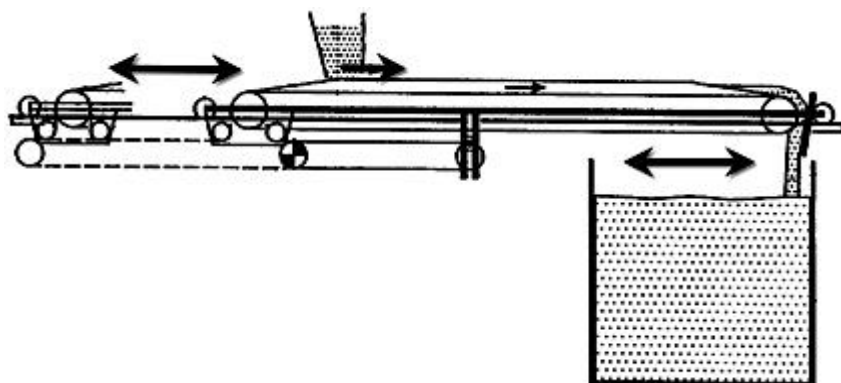
B65G 69/0408

{by relatively moving an endless feeding means ([B65G 69/0458](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

With rotating means	B65G 69/0458
The discharge point is moving over the loaded surface	

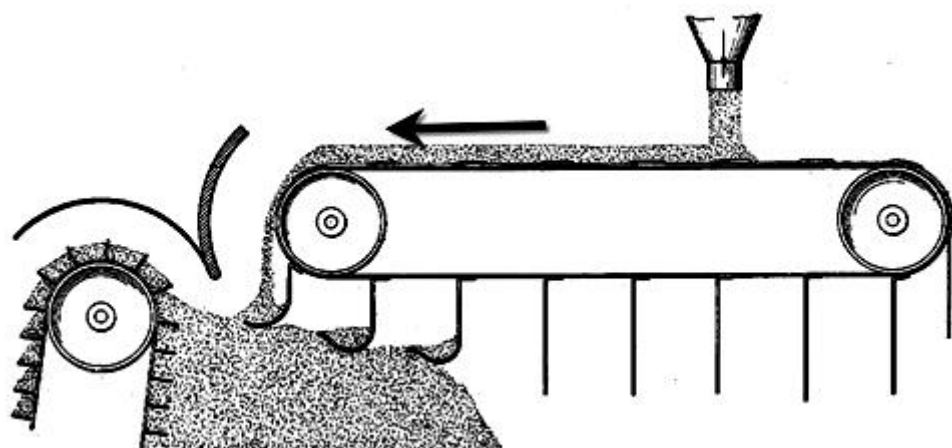
B65G 69/0416

{with scraping belts or chains}

Definition statement

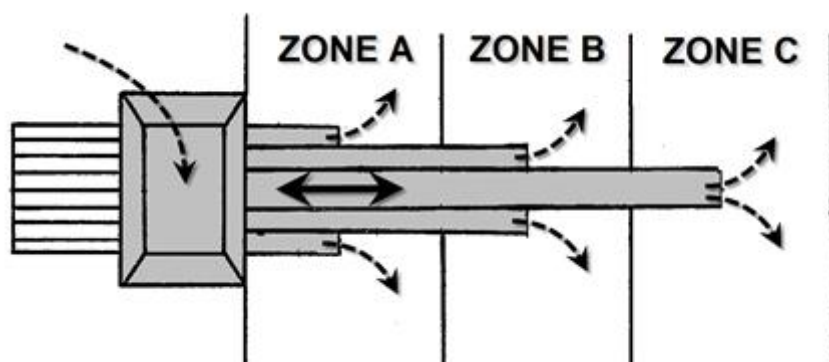
This place covers:

Illustrative example of subject matter classified in this group:

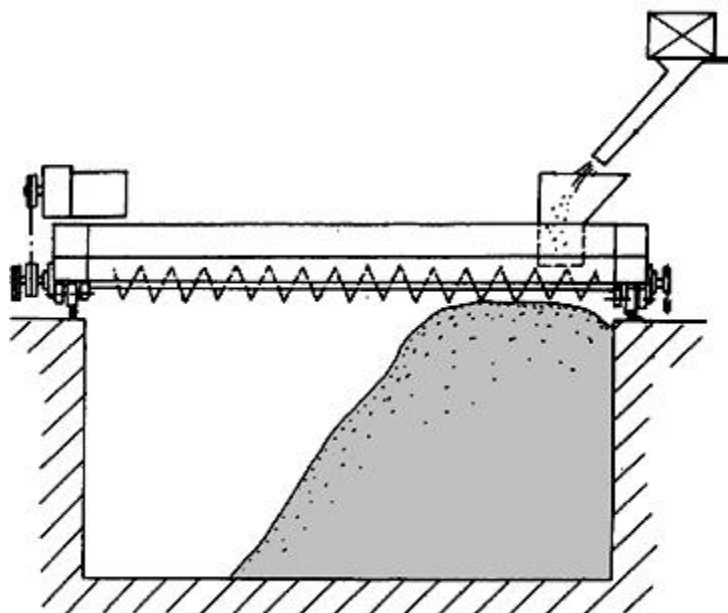


B65G 69/0425**{with vibrating or shaking means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 69/0433****{with screw conveyors}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



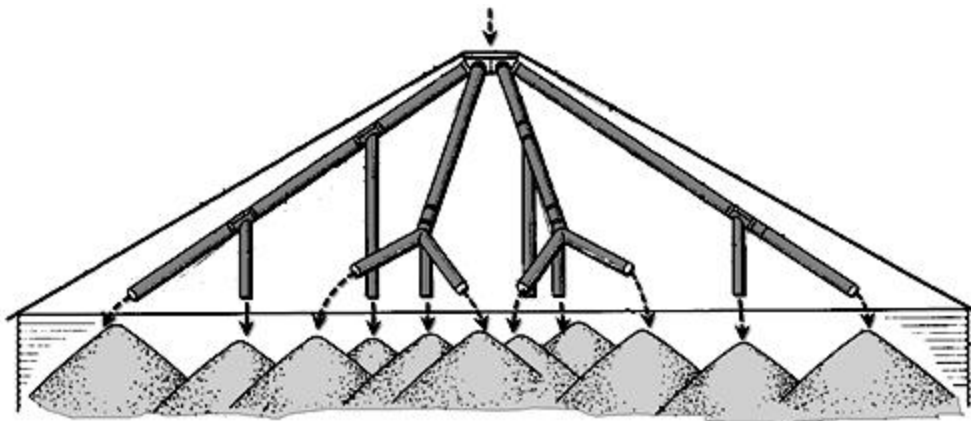
B65G 69/0441

{with chutes, deflector means or channels ([B65G 69/0458](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

The material is hit by the means	B65G 69/0458
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Deflector at the end of pneumatic feeding device	B65G 69/0491
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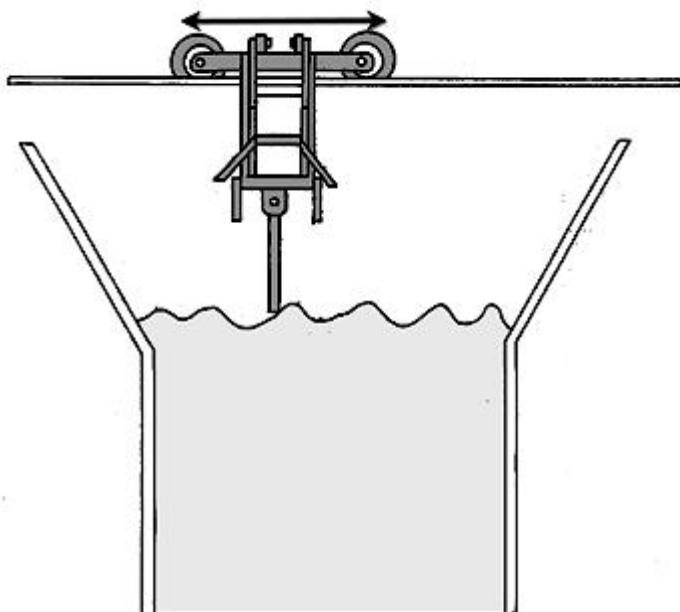
B65G 69/045

{with scraping devices ([B65G 69/0416](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

With scraping belts or chains	B65G 69/0416
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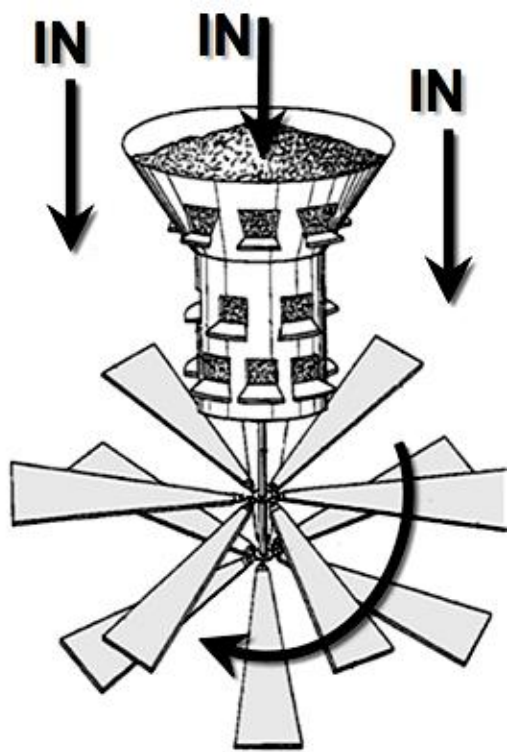
B65G 69/0458

{with rotating means, e.g. tables, arms}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

With chutes, deflector means or channels	B65G 69/0441
With throwing devices	B65G 69/0466

B65G 69/0466

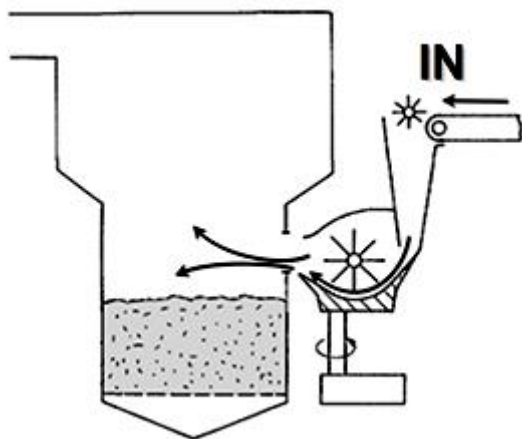
{with throwing devices}

Definition statement

This place covers:

One feeding entry giving an impulse to the material (otherwise [B65G 69/0466](#))

Illustrative example of subject matter classified in this group:



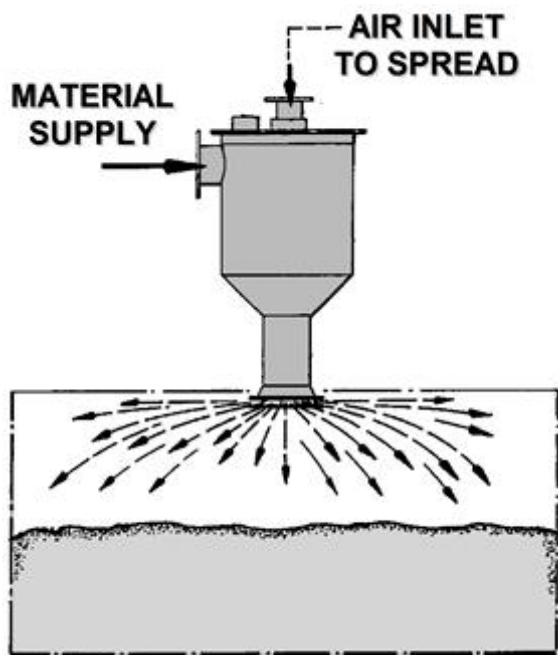
B65G 69/0475

{with air jets}

Definition statement

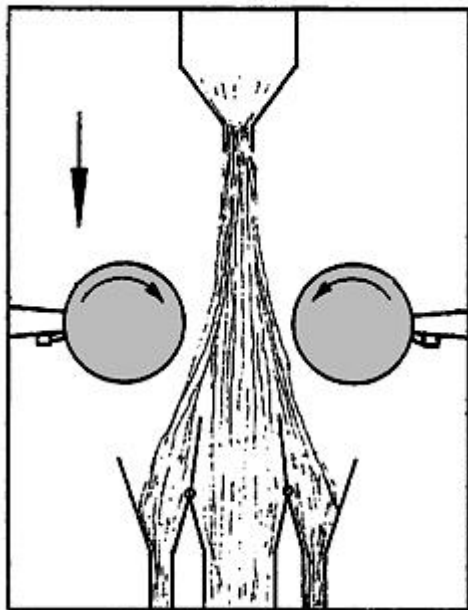
This place covers:

Illustrative example of subject matter classified in this group:

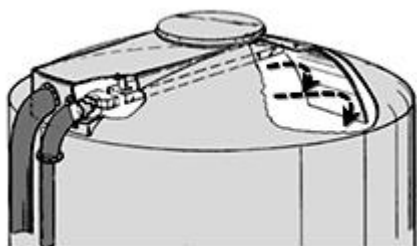


B65G 69/0483**{with electric or magnetic means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 69/0491****{with a pneumatic feeding conveyor}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



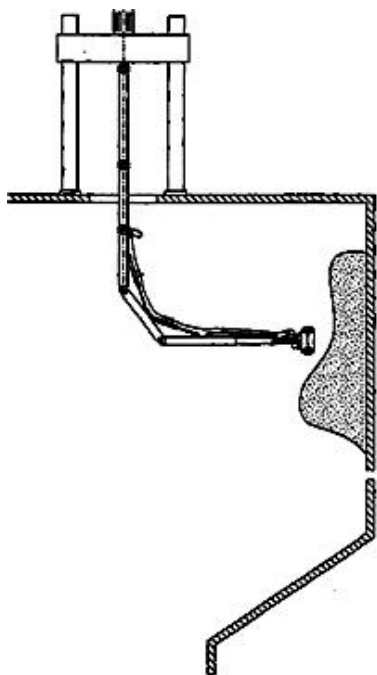
B65G 69/08

Devices for emptying storage spaces as completely as possible (devices preventing the formation of bridges in large containers [B65D 88/64](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Devices preventing the formation of bridges	B65D 88/64
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Loading or unloading	B65G 65/00
Cleaning hollow articles by methods or apparatus specially adapted thereto	B08B 9/00
Large containers	B65D 88/00

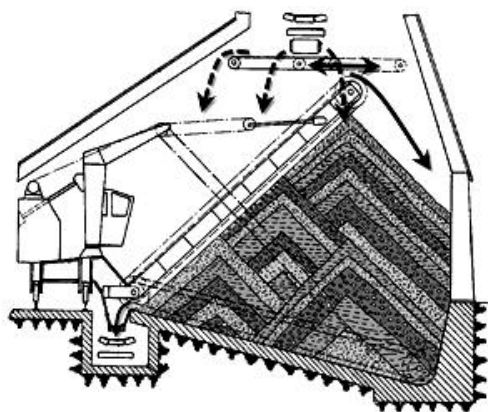
B65G 69/10

Obtaining an average product from stored bulk material

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

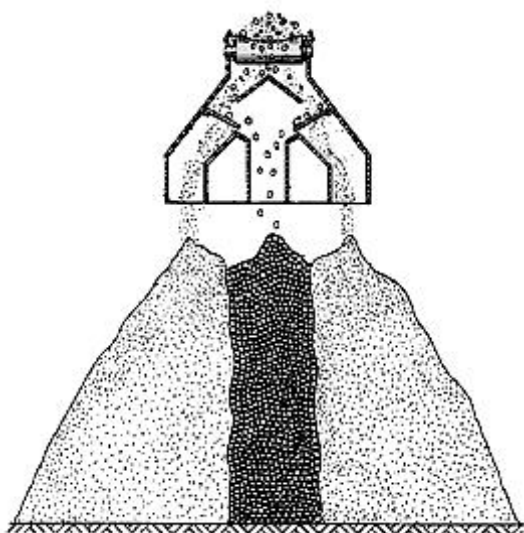
Attention is drawn to the following places, which may be of interest for search:

Construction or shape of discharge section	B65D 88/28
For measuring or testing	G01

B65G 69/12**Sieving bulk materials during loading or unloading****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

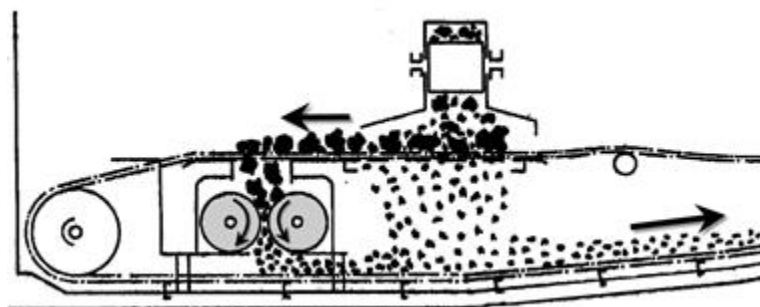
Attention is drawn to the following places, which may be of interest for search:

Separating solid materials using liquids or using pneumatic tables or jigs	B03B
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B65G 69/14**Pulverising loaded or unloaded materials****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Crushing	B02C
Preventing bridges	B65D 88/64
For coal mines	E21F 13/002

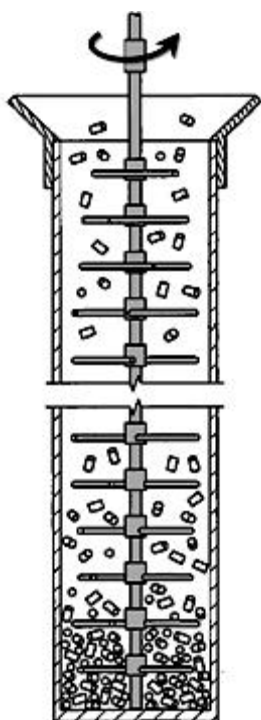
B65G 69/16

Preventing pulverisation, deformation, breakage, or other mechanical damage to the goods or materials

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Chutes with discontinuous guiding surfaces for bulk	B65G 11/088
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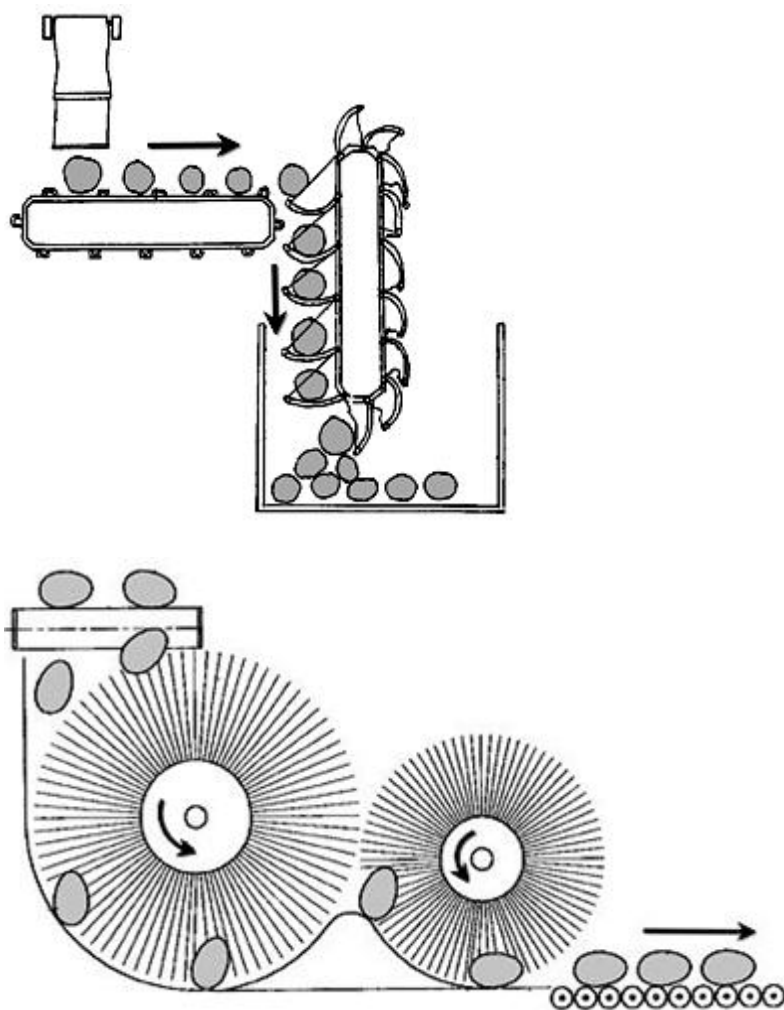
B65G 69/165

{using descending or lowering endless conveyors}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Packaging fruits/vegetables in crates	B65B 25/046
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B65G 69/18**Preventing escape of dust****References****Informative references**

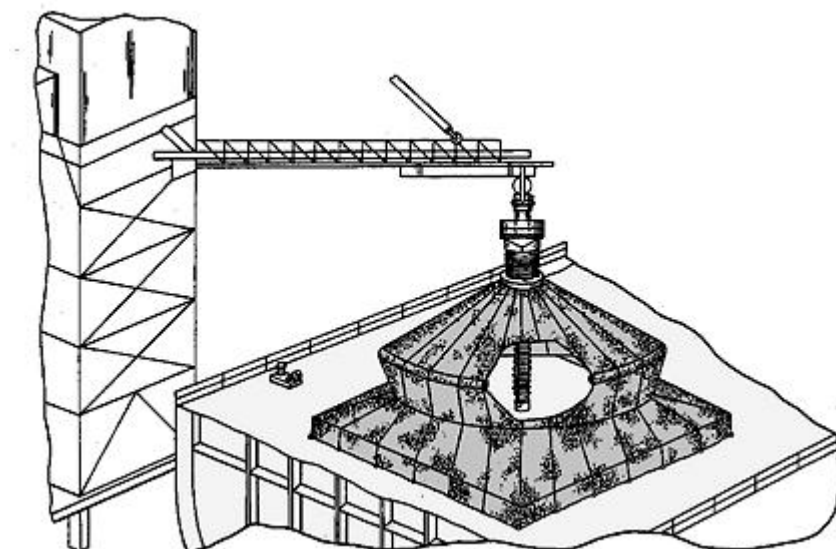
Attention is drawn to the following places, which may be of interest for search:

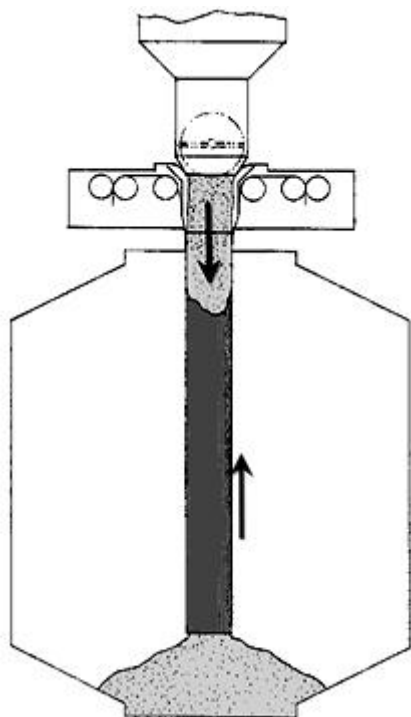
Preventing pulverisation of material	B65G 69/16
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B65G 69/181**{by means of sealed systems}****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:





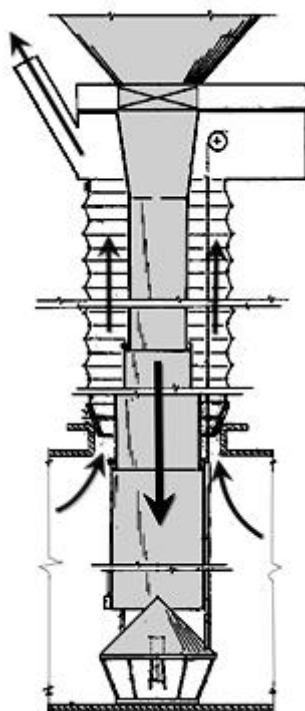
B65G 69/182

{with aspiration means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



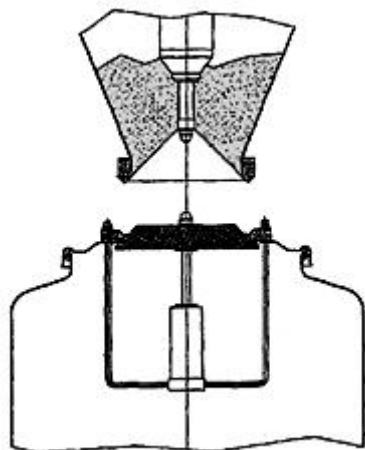
B65G 69/183

{with co-operating closure members on each of the parts of a separable transfer channel}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

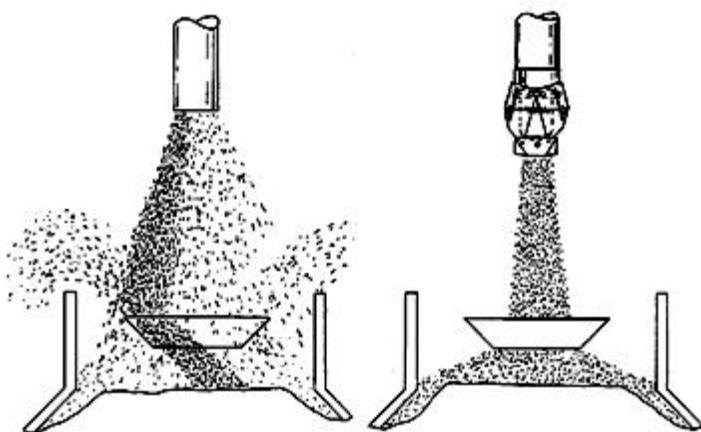
**B65G 69/185**

{by means of non-sealed systems}

Definition statement

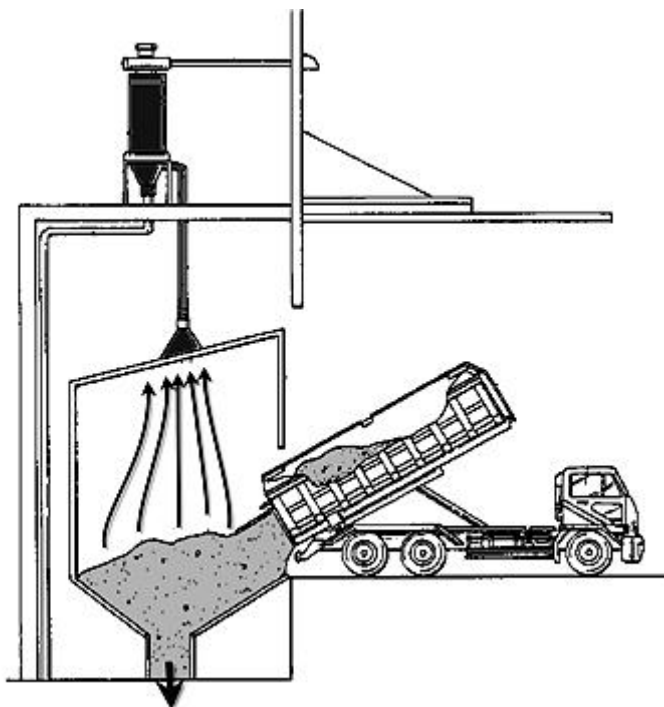
This place covers:

Illustrative example of subject matter classified in this group:

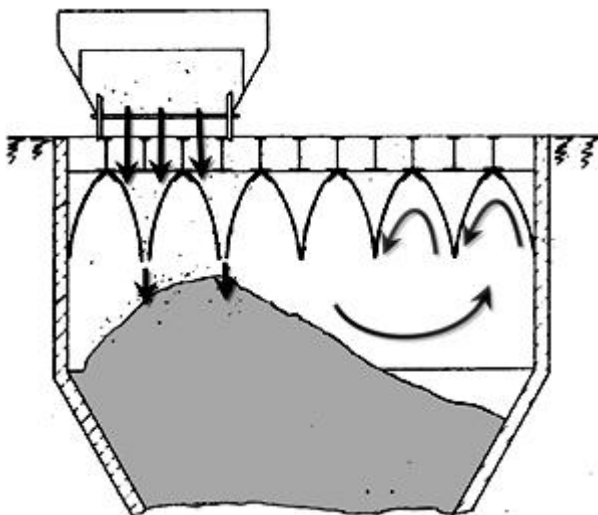


B65G 69/186**{with aspiration means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

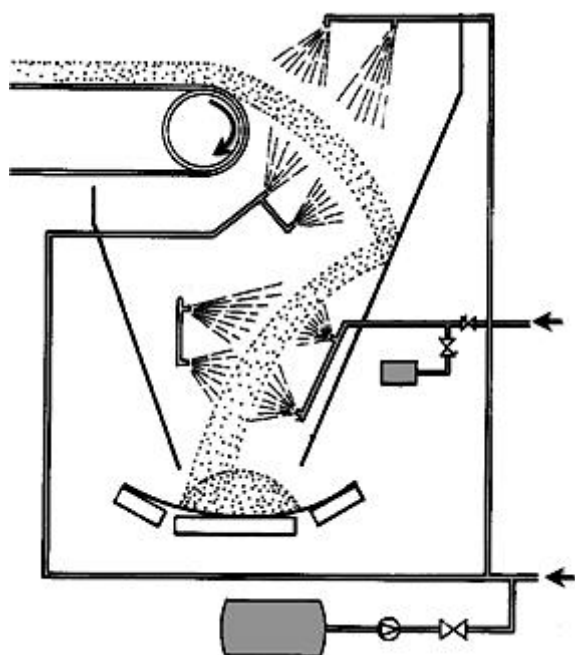
**B65G 69/187****{with non-return closures}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



B65G 69/188**{with spraying means}****Definition statement***This place covers:*

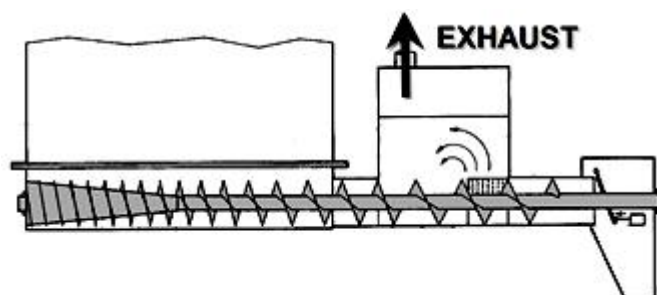
Illustrative example of subject matter classified in this group:

**B65G 69/20**

Auxiliary treatments, e.g. aerating, heating, humidifying, deaerating, cooling, de-watering or drying, during loading or unloading; Loading or unloading in a fluid medium other than air

Definition statement*This place covers:*

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

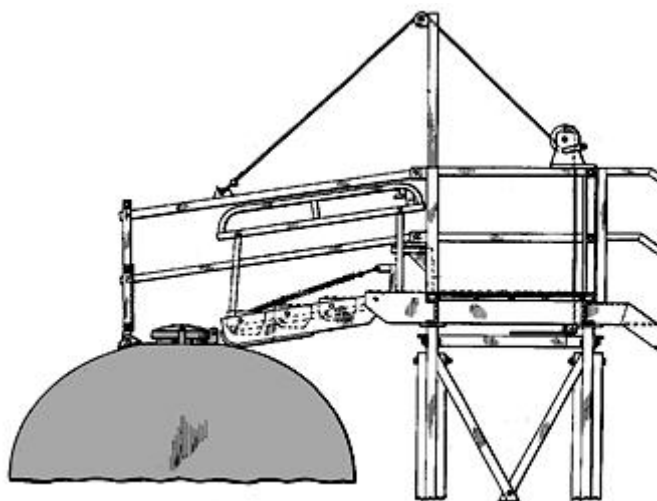
Loading containers	B65G 69/02
Spraying means	B65G 69/188
Fluidising devices	B65D 88/72

B65G 69/22

Horizontal loading or unloading platforms (as road or railway equipment [B61B 1/00](#), [E01F 1/00](#))

Definition statement

This place covers:



References

Limiting references

This place does not cover:

As road or railway equipment	B61B 1/00 , E01F 1/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Piles Tables	B65H
Scaffolds adjustable in height	E04G 1/20

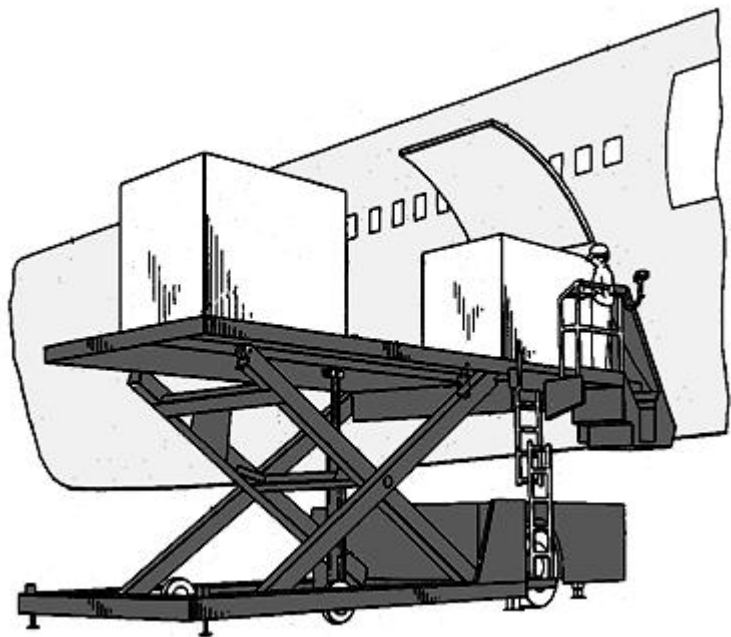
B65G 69/24

having platform level adjusting means

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

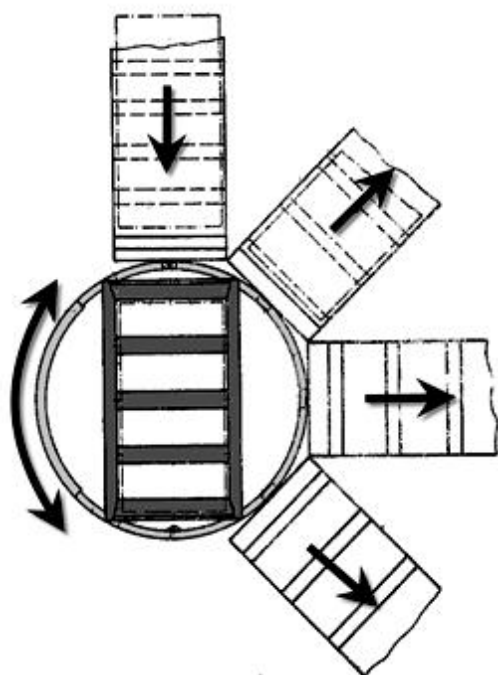
Attention is drawn to the following places, which may be of interest for search:

Handling freight in airports	B64D 9/00 , B64F 1/32
Lifting platforms	B66F 7/00

B65G 69/26**Rotatable platforms****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:

**B65G 69/28**

Loading ramps; Loading docks (as road or railway equipment [B61B 1/00](#), [E01F 1/00](#))

References**Limiting references**

This place does not cover:

As road or railway equipment	B61B 1/00 , E01F 1/00
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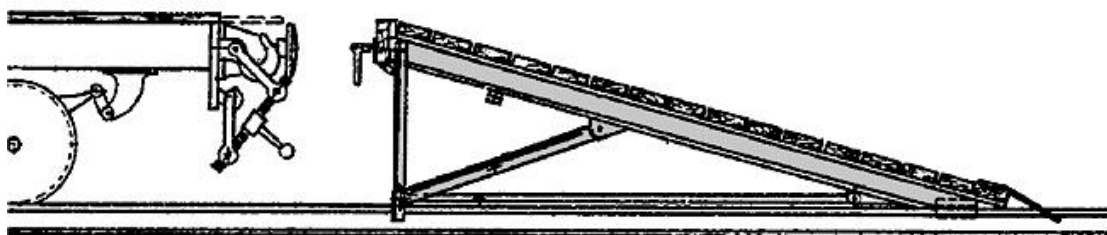
Informative references

Attention is drawn to the following places, which may be of interest for search:

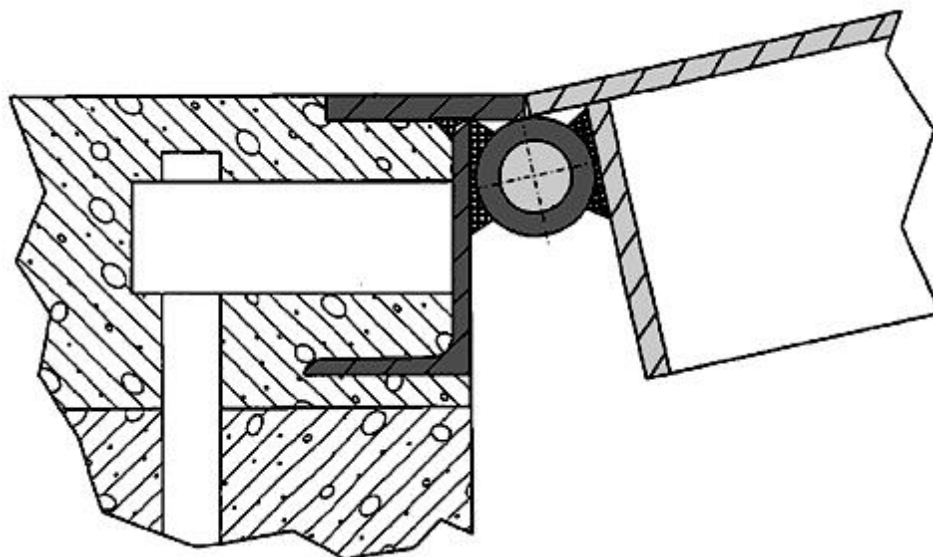
Access to ambulance	A61G 3/061
Loading ramp attached to vehicle truck	B60P 1/43
Access to vehicles for impaired people	B60R 3/00
Access to aircrafts	B64F 1/305
Ramps helping a vehicle to access a lifting frame	B66F 7/243
Access to ships	E01D 15/24
Access to buildings for disabled people	E04F 11/02

B65G 69/2805**{permanently installed on the dock}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 69/2811****{pivoting ramps}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Leveling vehicles	B65G 69/006
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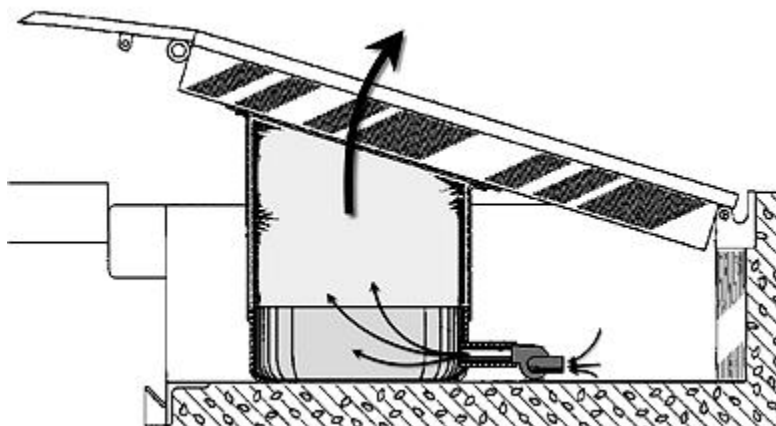
B65G 69/2817

{with fluid-operated means}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

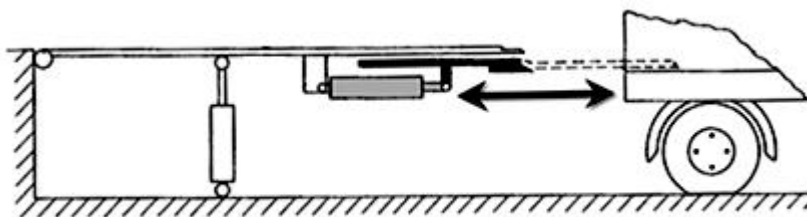
**B65G 69/2829**

{extensible by sliding parts}

Definition statement

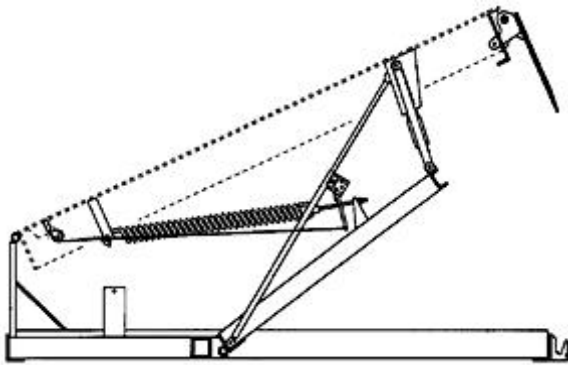
This place covers:

Illustrative example of subject matter classified in this group:

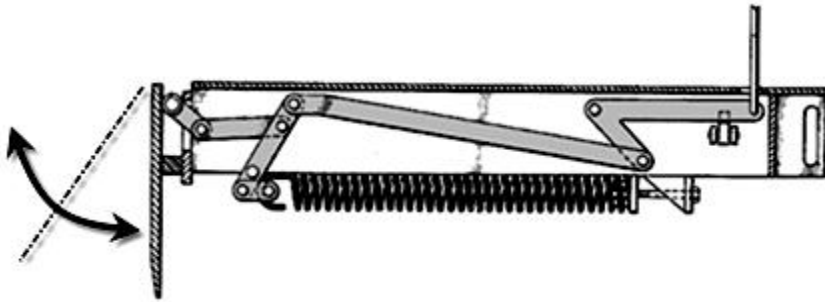


B65G 69/2835**{with spring-operated means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

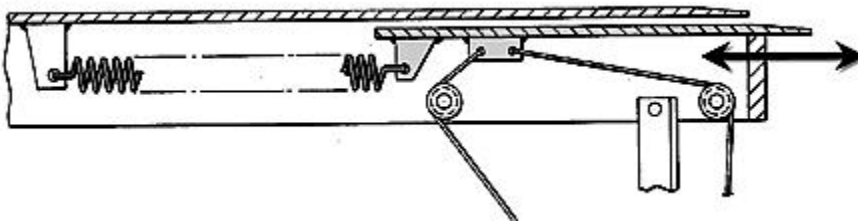
**B65G 69/2841****{extensible by pivoting parts}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

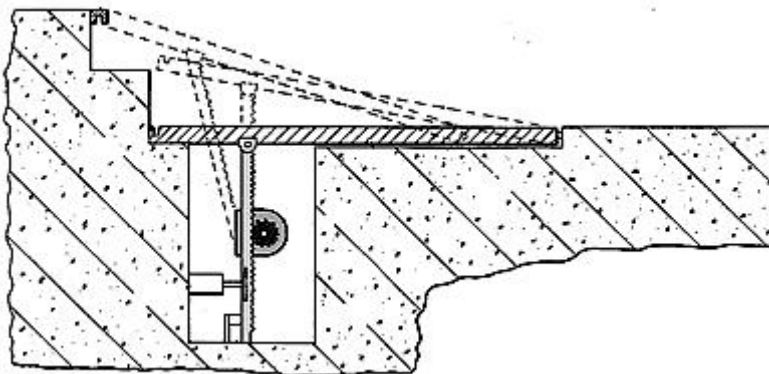


B65G 69/2847**{extensible by sliding parts}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

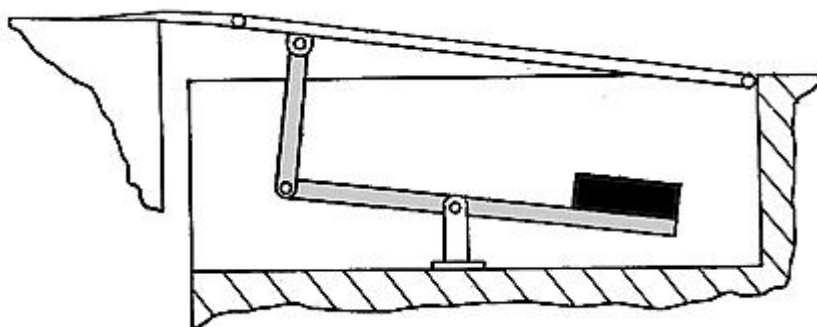
**B65G 69/2852****{with electric motor-operated means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

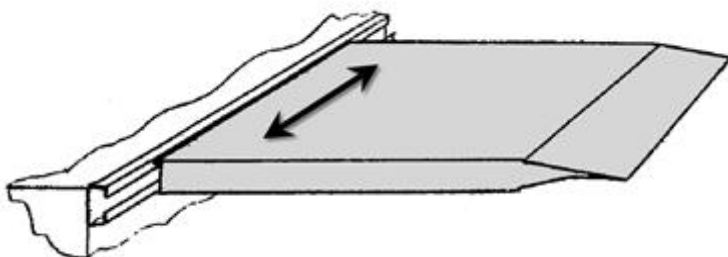


B65G 69/2858**{with weight counterbalancing means}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 69/2864****{adjustable with respect to the dock}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Floating ramps	B63B 27/143
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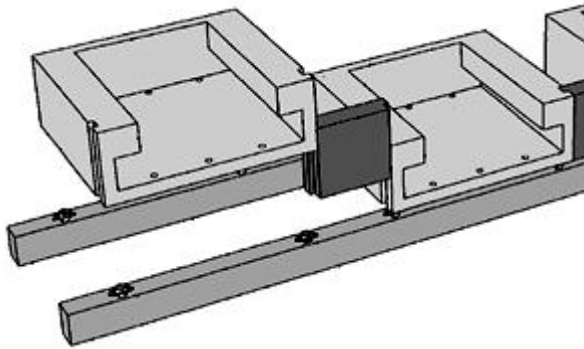
B65G 69/287

{Constructional features of deck or surround}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

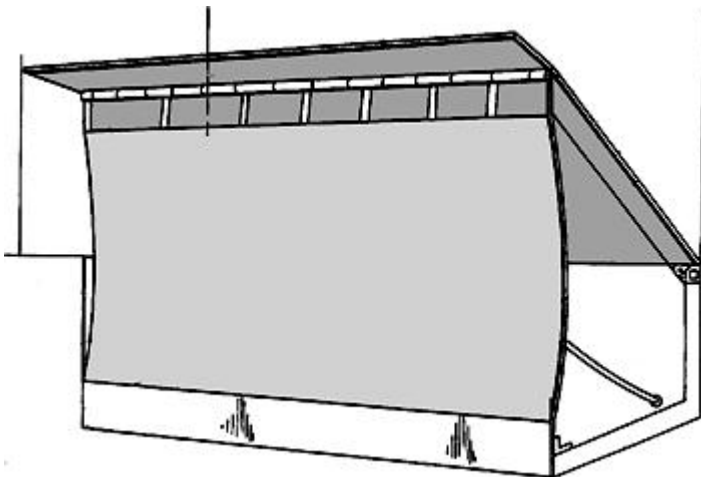
**B65G 69/2876**

{Safety or protection means, e.g. skirts}

Definition statement

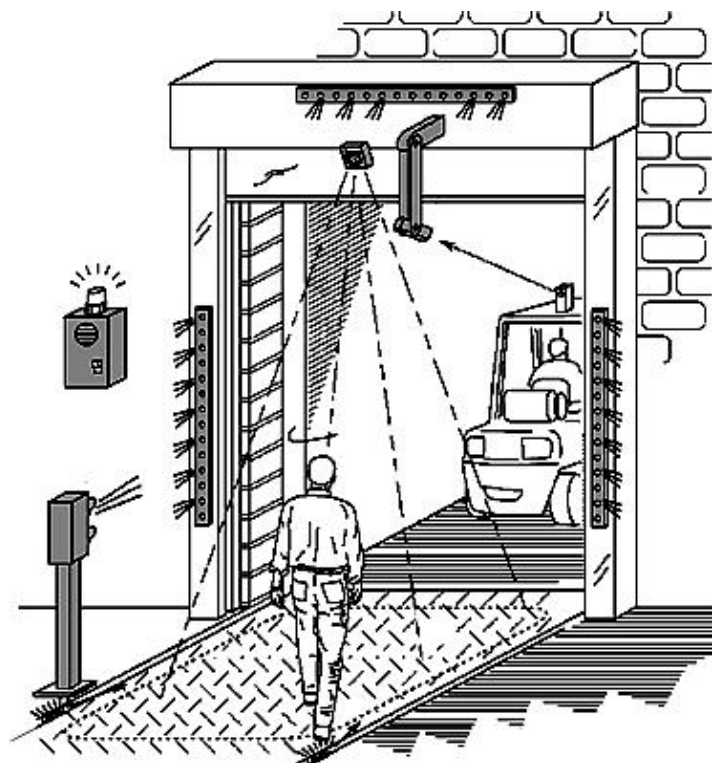
This place covers:

Illustrative example of subject matter classified in this group:

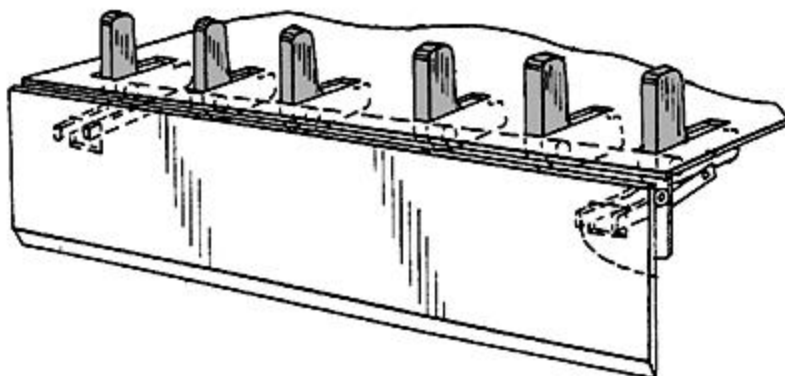


B65G 69/2882**{operated by detectors or sensors}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:

**B65G 69/2888****{Vehicle barriers mounted on deck}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group:



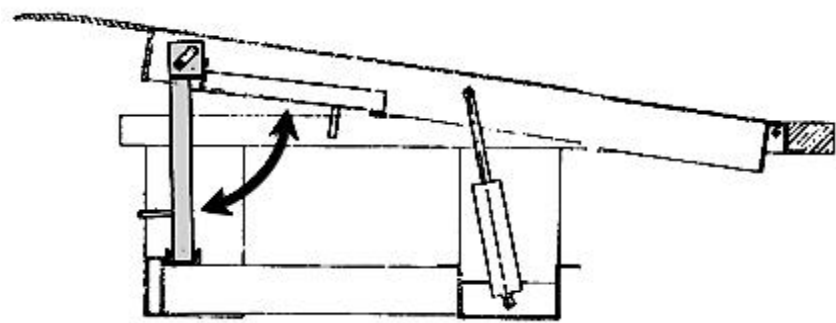
B65G 69/2894

{Safety legs}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



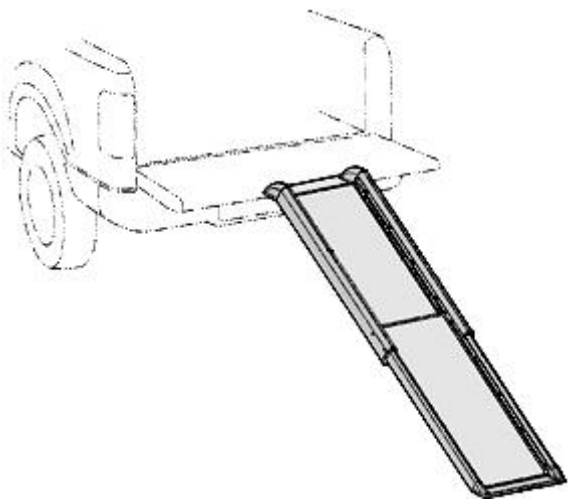
B65G 69/30

Non-permanently installed loading ramps, e.g. transportable

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Ramps fixed to or part of vehicles	B60P
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