

## B61K

### AUXILIARY EQUIPMENT SPECIALLY ADAPTED FOR RAILWAYS, NOT OTHERWISE PROVIDED FOR

#### Definition statement

*This place covers:*

All auxiliary devices or methods needed to make railways safer, faster or energy efficient.

#### References

##### References out of a residual place

*Examples of places in relation to which this place is residual:*

Energy-storing brakes	<a href="#">B61H</a>
Protection of permanent way against weather influences	<a href="#">E01B</a>
Rail cleaning, snow ploughs	<a href="#">E01H</a>

## B61K 1/00

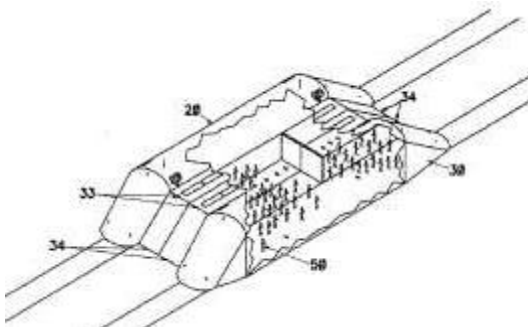
### Transferring passengers, articles, or freight to and from moving trains; Slipping or coupling vehicles from or to moving trains

#### Definition statement

*This place covers:*

Transit systems or methods wherein passengers or freights board and exit during moving of vehicles or wherein rail vehicles are coupled or uncoupled during motion.

Illustrative example of subject matter classified in this place:



## B61K 3/00

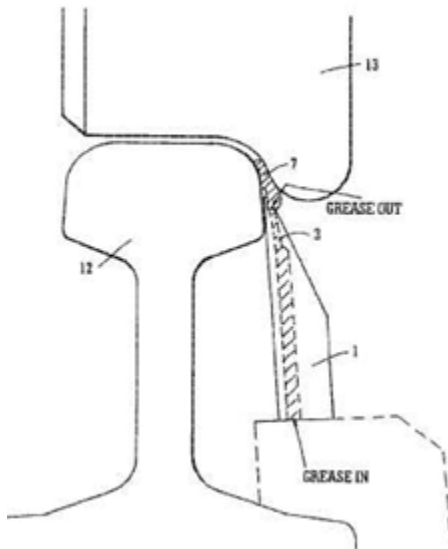
### Wetting or lubricating rails or wheel flanges

#### Definition statement

*This place covers:*

Devices or methods for the application of lubricant onto the surface of rails or wheels.

Illustrative example of subject matter classified in this place:



## References

### Informative references

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

Lubricating for vehicles	<a href="#">B60R 17/00</a>
Lubrication for locomotives	<a href="#">B61C 17/08</a>
Lubricating compositions characterised by the base-material being a non-macromolecular organic compound	<a href="#">C10M 105/00</a>
Lubricating in general	<a href="#">F16N</a>

## B61K 5/00

**Apparatus for placing vehicles on the track; Derailers; Lifting or lowering rail vehicle axles or wheels**

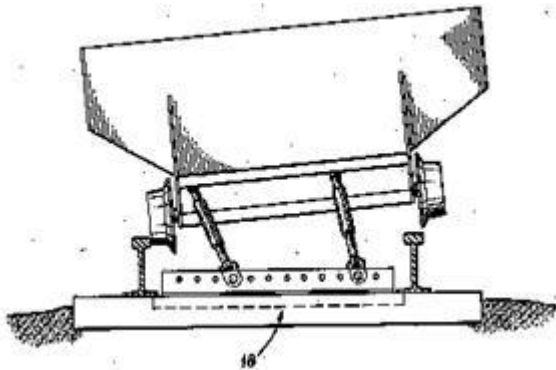
### Definition statement

*This place covers:*

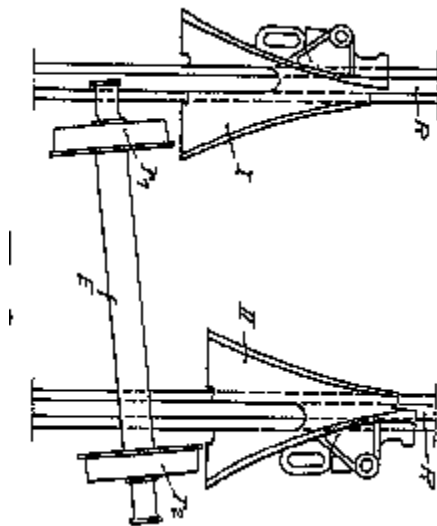
- Portable derailing devices;
- Devices for lifting a rail vehicle while standing on the rail;
- Re-railer apparatus for placing derailed railway vehicle back onto the track.

Illustrative examples of subject matter classified in this place:

1.



2.



## References

### Informative references

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

Overhead travelling cranes comprising one or more substantially horizontal girders the ends of which are directly supported by wheels or rollers running on tracks carried by spaced supports	<a href="#">B66C 17/00</a>
Capstans; Winches; Tackles, e.g. pulley blocks; Hoists	<a href="#">B66D</a>
Hoisting, lifting, hauling or pushing, not otherwise provided for, e.g. devices which apply a lifting or pushing force directly to the surface of a load	<a href="#">B66F</a>
Lifts with platforms suspended from ropes, cables or chains	<a href="#">B66F 7/02</a>

**B61K 7/00**

**Railway stops fixed to permanent way; Track brakes or retarding apparatus fixed to permanent way; Sand tracks or the like**

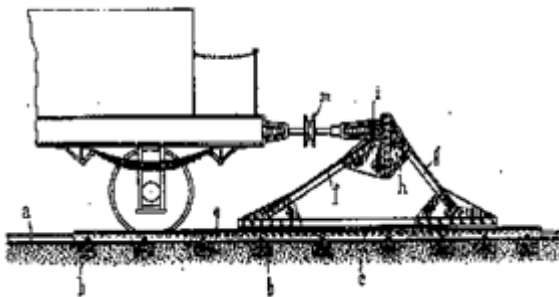
## Definition statement

*This place covers:*

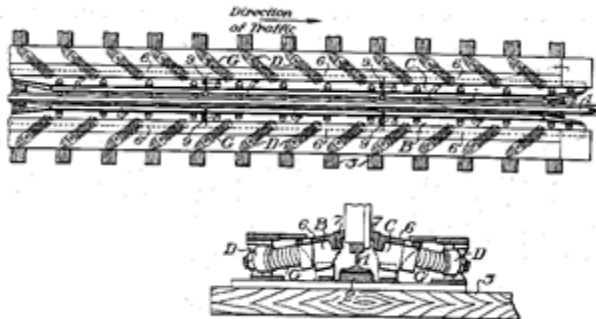
Devices fixed to railway track or permanent way, and methods associated with such devices, for stopping or retarding the movement of railway vehicles.

Illustrative examples of subject matter classified in this place:

1.



2.



## References

### References out of a residual place

*Examples of places in relation to which this place is residual:*

Brakes with braking members co-operating with the track	<a href="#">B61H 7/00</a>
Scotch-blocks, skids or like track-engaging shoes	<a href="#">B61H 7/02</a>
Operating mechanisms for track-mounted scotch-blocks	<a href="#">B61L 5/00</a> , <a href="#">B61L 7/00</a>

B61K 7/10

electrodynamic {(B61K 7/025 takes precedence)}

References

Limiting references

This place does not cover:

Retarders of the mushroom type	<a href="#">B61K 7/025</a>
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Informative references

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

Electrodynamic brake systems for vehicles in general	<a href="#">B60L 7/00</a>
Methods, circuits or devices for controlling the propulsion of electrically-propelled vehicles, e.g. their traction-motor speed, to achieve a desired performance; Adaptation of control equipment on electrically-propelled vehicles for remote actuation from a stationary place, from alternative parts of the vehicle or from alternative vehicles of the same vehicle train	<a href="#">B60L 15/00</a>

B61K 7/14

Sand or like tracks

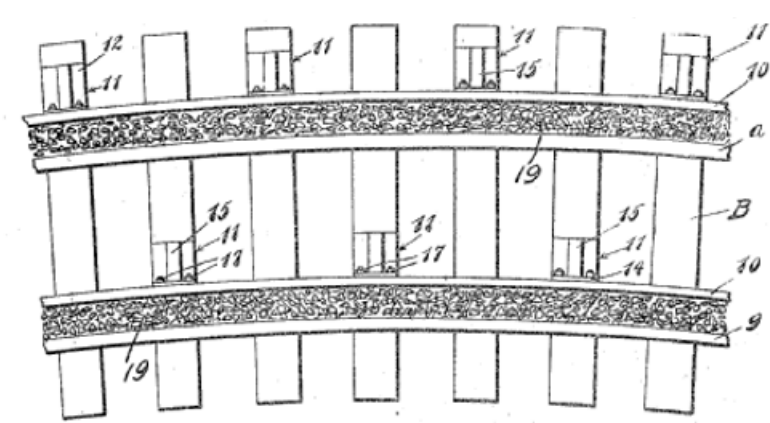
Definition statement

This place covers:

Means combined with a track using sand or materials which have a retarding effect on the wheels.

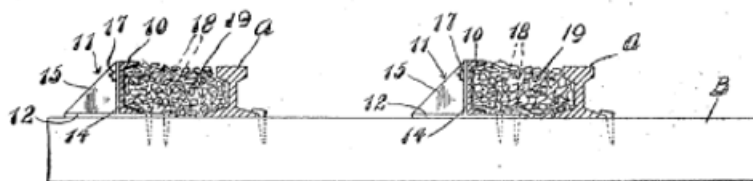
Illustrative example of subject matter classified in this place:

1a.



## Definition statement

1b.



Figures 1a and 1b illustrate a top and cross view of a sand or like track.

## References

### Informative references

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

Preventing wheel slippage by depositing sand or like friction-increasing materials
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<a href="#">B61C 15/10</a>
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## B61K 9/00

**Railway vehicle profile gauges; Detecting or indicating overheating of components; Apparatus on locomotives or cars to indicate bad track sections; General design of track recording vehicles**

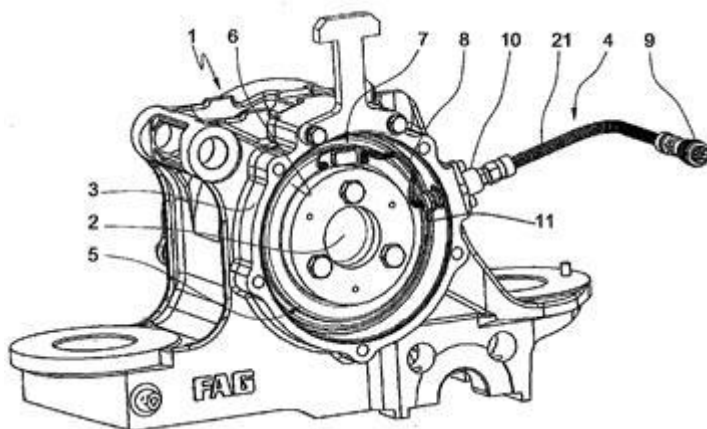
### Definition statement

This place covers:

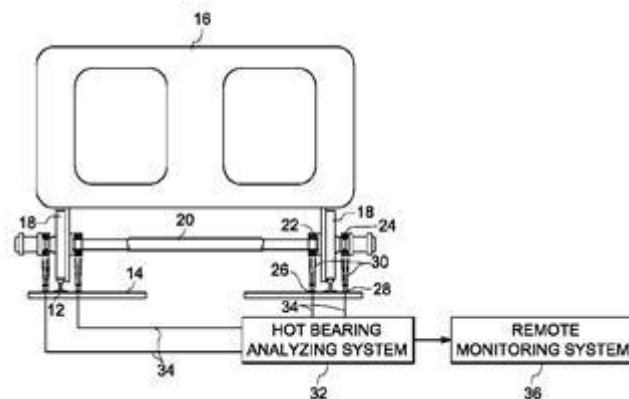
- Methods for detecting of imbalance in wheels of rail vehicle;
- Train wheel bearing temperature detection;
- Sensors for rail vehicle wheel bearing unit;
- Methods or devices for contactless measurement of the deformation or wear of railroad tracks;
- Acoustic monitoring of railcar running gear.

Illustrative examples of subject matter classified in this place:

1.



2.



## References

### References out of a residual place

Examples of places in relation to which this place is residual:

Track-building in general	<a href="#">E01B</a>
Applications of measuring apparatus or devices for track-building purposes	<a href="#">E01B 35/00</a>

### Informative references

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

Manufacturing wheels	<a href="#">B23B 5/28</a> , <a href="#">B24B 5/30</a> , <a href="#">B24B 21/02</a>
Reconditioning wheel sets without removing same from the vehicle; Underfloor wheel lathes for railway vehicles	<a href="#">B23B 5/32</a>
Railway wheels	<a href="#">B60B 17/00</a>
Brakes for railway vehicles coming into operation in case of accident, derailment or damage of rolling stock or superstructure	<a href="#">B60T 7/124</a>
Arrangements for adjusting wheel-braking force to meet varying vehicular or ground-surface conditions	<a href="#">B60T 8/00</a>
Railway control, warning or safety means	<a href="#">B61L</a>
Measuring arrangements characterised by the use of infrasonic, sonic or ultrasonic vibrations	<a href="#">G01B 17/00</a>
Weighing apparatus or methods adapted for weighing railway vehicles	<a href="#">G01G 19/04</a>
Measuring mechanical vibrations	<a href="#">G01H 17/00</a>
Radiation pyrometry for sensing the radiation of moving bodies	<a href="#">G01J 5/0022</a>
Casings for radiation pyrometry, e.g. infrared or optical thermometry	<a href="#">G01J 5/04</a>
Thermometers for measuring temperature of moving solid bodies	<a href="#">G01K 13/04</a>
Testing of railway vehicles	<a href="#">G01M 17/08</a>
Investigating materials by determining their chemical or physical properties	<a href="#">G01N</a>
Investigating presence of flaws	<a href="#">G01N 25/72</a>

Investigating of materials by the use of ultrasonic waves	<a href="#">G01N 29/00</a>
Measuring speed	<a href="#">G01P 3/00</a>
Navigation for trains using radio waves	<a href="#">G01S 5/02</a>

## **B61K 9/08**

### **Measuring installations for surveying permanent way**

#### **References**

##### **Informative references**

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

Applications of measuring apparatus or devices for track-building purposes	<a href="#">E01B 35/00</a>
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## **B61K 11/00**

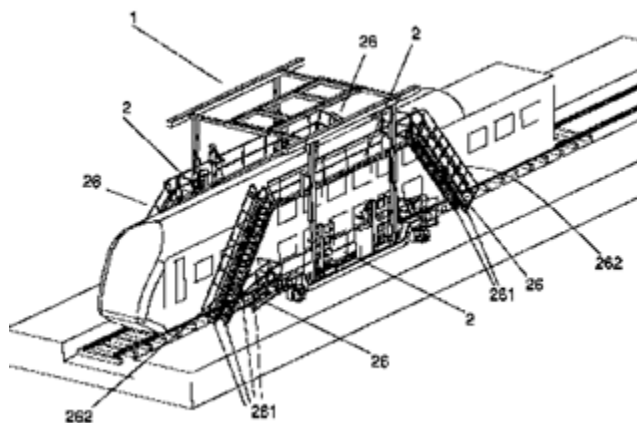
### **Serving peculiar to locomotives, e.g. filling with, or emptying of, water, sand or the like at the depots**

#### **Definition statement**

*This place covers:*

Illustrative examples of subject matter classified in this place:

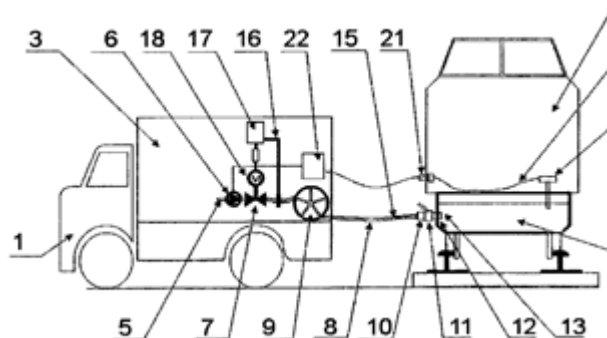
1.





## Definition statement

2.



## References

**References out of a residual place**

Examples of places in relation to which this place is residual:

Filling stations for steam- or pneumatic-accumulator locomotives	<a href="#">B61C 8/00</a>
Water or fuel supply fittings on locomotives	<a href="#">B61C 17/02</a>

**Informative references**

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

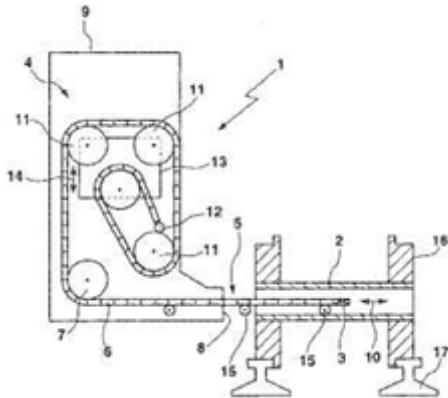
Lifting or lowering rail vehicle axles or wheels	<a href="#">B61K 5/00</a>
Transport or storage devices	<a href="#">B65G</a>
Conveying materials in bulk	<a href="#">B65G 53/00</a>
Refuelling locomotives with solid fuels	<a href="#">B65G 67/18</a>
Washing or cleaning boilers	<a href="#">F28G</a>

**B61K 13/00****Other auxiliaries or accessories for railways****Definition statement**

This place covers:

Other auxiliary devices and methods not classified in [B61K 1/00](#) - [B61K 11/00](#).

Illustrative example of subject matter classified in this place:



## References

### Informative references

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

Safety belts or body harnesses	<a href="#">A62B 35/00</a>
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## B61K 13/04

**Passenger-warning devices attached to vehicles; Safety devices for preventing accidents to passengers when entering or leaving vehicles**

## References

### References out of a residual place

Examples of places in relation to which this place is residual:

Safety devices for preventing passengers from being injured by movements of doors or variations in air pressure	<a href="#">B61D 19/026</a>
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