

B08B**CLEANING IN GENERAL; PREVENTION OF FOULING IN GENERAL****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:

Cleaning agricultural implements	A01B 71/08
Cleaning milking machines or devices	A01J 7/02
Machines for cleaning baking surfaces of bakers' ovens	A21B 3/16
Apparatus for cleaning systems used for the production of frozen sweets, e.g. ice-cream	A23G 9/30
Machines for washing fruits or vegetables, e.g. coffee, cocoa or nuts	A23N 12/02 , A23N 12/06
Helmet visors with cleaning means, e.g. wipers	A42B 3/26
Devices specially adapted for cleaning shavers or razors	A45D 27/46
Devices for cleaning brushes after use	A46B 17/06
Cleaning devices for beverage-making apparatus	A47J 31/60
Hand tools for cleaning toilet bowls	A47K 11/10
Domestic washing or cleaning	A47L
Cleaning devices specially adapted for surgical instruments	A61B 90/70
Cleaning devices for bed-pans, urinal or other sanitary devices for bed-ridden purposes	A61G 9/02
Devices for cleaning balls	A63B 47/04
Cleaning or maintenance of golf clubs, putters, shoes or other golf accessories	A63B 57/60
Devices for cleaning handles or grips of golf clubs, bats, rackets or the like	A63B 60/36
Apparatus for cleaning bowling balls, pins or alleys	A63D 5/10
Arrangements for cleaning spraying plant or spraying apparatus	B05B 15/50
Cleaning of work in metal-rolling mills	B21B 45/02
Cleaning dies, ducts, containers or mandrels	B21C 3/02 , B21C 35/06
Devices for cleaning metal products in connection with metal-working without essentially removing material	B21C 43/00
Mechanical cleaning, e.g. skimming of molten metals	B22D 43/00
Grinding a surface for cleaning purposes, e.g. for descaling or for grinding off flaws in the surface	B24B 27/033
Cleaning of grinding wheels	B24B 53/007
Devices for means for dressing, cleaning or otherwise conditioning lapping tools	B24B 53/017
Abrasive or related blasting with particulate material, e.g. sand-blasting	B24C
Cleaning of articles shaped from ceramic compositions, slag or mixtures containing cementitious material	B28B 11/22

Cleaning of moulds or cores used to shape or join plastics	B29C 33/72
Cleaning of extrusion moulding apparatus used to shape plastics	B29C 48/27
Cleaning of plastic objects made by additive manufacturing	B29C 64/35
Cleaning ink jet nozzles	B41J 2/165
Implements or apparatus for removing dry paint from surfaces, e.g. by scraping or by burning	B44D 3/16
Cleaning of vehicles, not otherwise provided for	B60S
Preventing hull fouling	B63B 59/04
Cleaning devices for hulls	B63B 59/06
Cleaning aircraft	B64F 5/30
Cleaning or disinfecting devices combined with refuse receptacles or refuse vehicles	B65F 7/00
Cleaning devices for conveyor screws and conveyors	B65G 45/00
Concurrent cleaning, filling and closing of bottles	B67C 7/00
Cleaning beverage-dispensing apparatus	B67D 1/07
Cleaning of fibres or filaments made from glass, minerals or slags, e.g. for reuse	C03C 25/70
Preventing or removing incrustations from coke ovens	C10B 43/00
Detergent compositions; Use of single substances as detergents; Soap or soap-making; Resin soaps	C11D
Cleaning or de-greasing of metallic material by chemical methods other than electrolysis	C23G
Cleaning fibres	D01G 9/00
Cleaning carding surfaces	D01G 15/76
Cleaning of running surfaces of open-end spinning machines or arrangements	D01H 4/22
Arrangements maintaining drafting elements free of fibre accumulations	D01H 5/60
Auxiliary apparatus combined with or associated with looms for treating warp, e.g. cleaning	D03J 1/02
Laundering	D06F
Cleaning streets, permanent ways, beaches or land	E01H
Devices or arrangements for removing snow, ice or debris from gutters or for preventing accumulation thereof	E04D 13/076
Cleaning of building forms	E04G 19/00
Parts, details or accessories of swimming or splash baths or pools, specially adapted for cleaning	E04H 4/16
Methods or apparatus for cleaning boreholes or wells	E21B 37/00
Cleaning of, preventing corrosion or erosion in, or preventing unwanted deposits in, combustion engines	F02B 77/04
Cleaning wind motors	F03D 80/55
Devices or arrangements for removing water, minerals or sludge from boilers	F22B 37/48
Cleaning furnace tubes; Cleaning flues or chimneys	F23J 3/02

Application-oriented references

Stoves or ranges having self-cleaning provisions, e.g. continuous catalytic cleaning or electrostatic cleaning	F24C 14/00
Cleaning or removing snow from solar heat collectors	F24S 40/20
Devices for removing incrustations from furnaces	F27D 25/00
Cleaning heat-transfer conduits, e.g. water tubes of boilers	F28G
Cleaning arrangements for small arms and ordnance	F41A 29/00
Preparing specimens for investigation by cleaning	G01N 1/34
Preventing of contamination of analytical optical means	G01N 21/15
Cleaning of geophysical equipment or seismic cables	G01V 13/00
Cleaning spectacle frames or lenses, sunglasses, goggles or contact lenses	G02C 13/00
Cleaning or inspecting masks, photomasks, reticles, mask blanks or pellicles	G03F 1/82
Machines or apparatus for cleaning watches	G04D 3/08
Cleaning record carriers	G11B 3/58
Cleaning of electric incandescent lamp vessels	H01K 3/22
Devices for removing snow or ice from lines or cables	H02G 7/16
Cleaning arrangements in combination with photovoltaic modules	H02S 40/10
Cleaning the conductive pattern of printed circuits	H05K 3/26
Process and apparatus for cleaning semiconductors	H10P 95/00 , H10P 72/00

Informative references

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

Manufacture of brushes	A46D
Separation of particles from liquids or gases	B01D
Separation of solid materials	B03 , B07
Centrifugal apparatus or machines for carrying-out physical or chemical processes	B04
Turning; Boring	B23B
Soldering	B23K
Hand tools; Portable power-driven tools; Manipulators	B25
Treatment of water in general	C02F
Anti-icing materials	C09K 3/18
Mechanical treatment or processing of skins, hides or leather in general; Pelt-shearing machines; Intestine-splitting	C14B
Inhibiting corrosion or incrustation in general	C23F
Air-conditioning or ventilation	F24F
Preventing or removing electrostatic charges	H05F

B08B 1/00

Cleaning by methods involving the use of tools (cleaning hollow articles by methods or apparatus specially adapted thereto [B08B 9/00](#))

Definition statement

This place covers:

The mechanical cleaning of articles by means of mechanical members such as tools, brushes, or analogous members, with or without the application of fluid.

References**Limiting references**

This place does not cover:

Cleaning hollow articles by methods or apparatus specially adapted thereto	B08B 9/00
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Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

wipe(n)	a piece of cloth or paper, optionally treated with a cleaning agent or solution, for cleaning articles by wiping
wiper	a cleaning element comprising a flexible blade

B08B 1/12**Brushes****References****Informative references**

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

Brushes per se	A46B
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B08B 1/20

Cleaning of moving articles, e.g. of moving webs or of objects on a conveyor

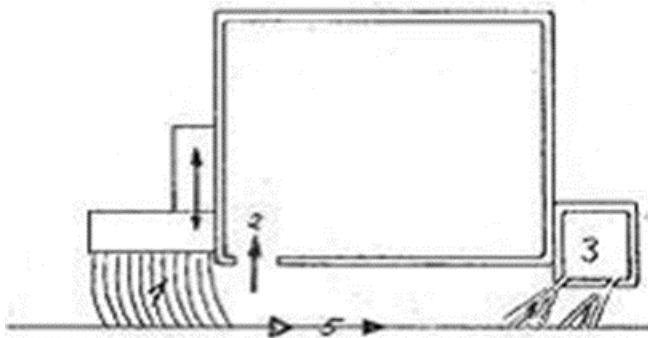
Definition statement

This place covers:

The cleaning of articles while they are travelling past at least one cleaning member.

Definition statement

Illustrative example of subject matter classified in this group:



B08B 1/30

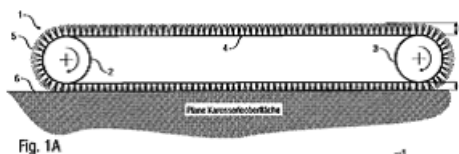
by movement of cleaning members over a surface

Definition statement

This place covers:

The cleaning of articles by means of cleaning members comprising guiding means for performing a translatory movement along the articles to be cleaned.

Illustrative example of subject matter classified in this group:



B08B 1/32

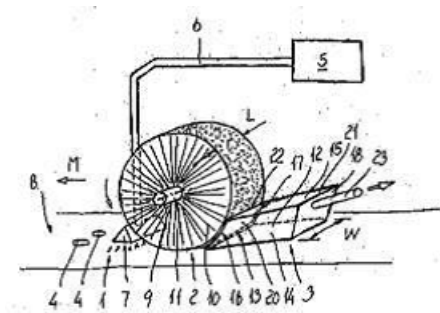
using rotary cleaning members

Definition statement

This place covers:

The cleaning of articles by means of cleaning members which are arranged to perform a rotary movement over a surface.

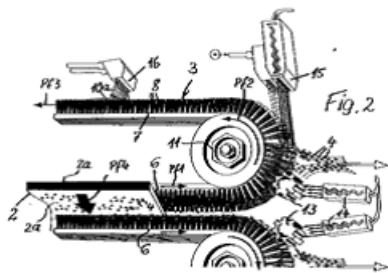
Illustrative example of subject matter classified in this group:



B08B 1/50**involving cleaning of the cleaning members****Definition statement***This place covers:*

The cleaning of articles by methods involving the use of tools, brushes or analogous members, further comprising means to clean or regenerate the cleaning members.

Illustrative example of subject matter classified in this group:

**B08B 3/00**

Cleaning by methods involving the use or presence of liquid or steam
([B08B 9/00](#) takes precedence)

Definition statement*This place covers:*

The mechanical cleaning of objects by means of liquid. The cleaning of objects by means of contacting with steam.

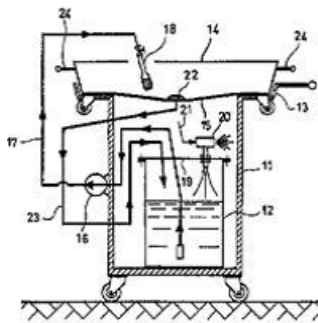
B08B 3/003**{Cleaning involving contact with foam}****Definition statement***This place covers:*

The cleaning of objects by means of contacting with a foam.

B08B 3/006**{Cabinets or cupboards specially adapted for cleaning articles by hand}****Definition statement***This place covers:*

Manual cleaning of objects while these are located within a cabinet such as a parts washer.

Example: EP-A2-1524040



B08B 3/02

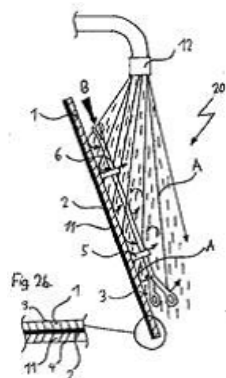
Cleaning by the force of jets or sprays

Definition statement

This place covers:

The cleaning of objects by means of the mechanical action of a liquid or steam jet.

Example: WO-A1-03/092524



B08B 3/022

{Cleaning travelling work ([B08B 3/042](#) takes precedence)}

Definition statement

This place covers:

The cleaning of objects while these are travelling past at least one fluid jet.

B08B 3/024

{Cleaning by means of spray elements moving over the surface to be cleaned}

Definition statement

This place covers:

The cleaning of objects by means of fluid jets comprising guiding means for performing a controlled movement along the object to be cleaned.

B08B 3/026**{Cleaning by making use of hand-held spray guns; Fluid preparations therefor}****Definition statement***This place covers:*

The cleaning of objects by means of hand-held spray guns.

B08B 3/028**{Spray guns}****Definition statement***This place covers:*

Gun lances used in the cleaning of objects by means of hand-held spray guns.

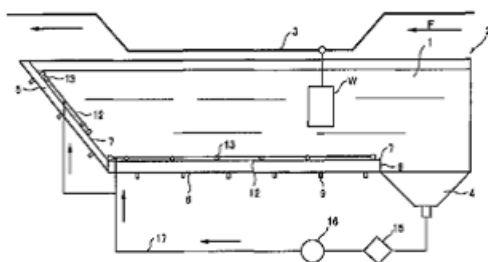
B08B 3/04**Cleaning involving contact with liquid****Definition statement***This place covers:*

The cleaning of objects by means of contacting with a liquid.

B08B 3/041**{Cleaning travelling work}****Definition statement***This place covers:*

The cleaning of objects while these are travelling and in contact with a liquid.

Example: GB-A-2469605

**B08B 3/042****{the loose articles or bulk material travelling gradually through a drum or other container, e.g. by helix or gravity}****Definition statement***This place covers:*

The cleaning of objects while these are travelling gradually through a

Definition statement

container in contact with a liquid.

B08B 3/044

{using agitated containers in which the liquid and articles or material are placed (by means of ultrasonic vibrations [B08B 3/12](#); cleaning casks or barrels by agitating [B08B 9/0817](#); mixers with shaking, oscillating or vibrating mechanisms [B01F 31/00](#))}

Definition statement

This place covers:

The cleaning of objects while these are within an agitated container filled with a liquid.

B08B 3/045

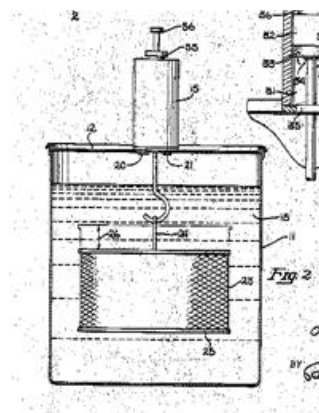
{using perforated containers, e.g. baskets, or racks immersed and agitated in a liquid bath (using perforated drums [B08B 3/06](#))}

Definition statement

This place covers:

The cleaning of objects while these are within a perforated container which is agitated within a liquid bath.

Example: US-A-3794053



B08B 3/047

{Containers specially adapted therefor}

Definition statement

This place covers:

Specially adapted perforated containers.

B08B 3/06

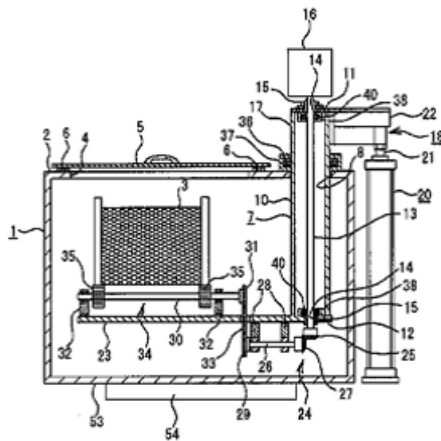
using perforated drums in which the article or material is placed {([B08B 3/042](#) takes precedence)}

Definition statement

This place covers:

The cleaning of objects while these are within a perforated drum and contacted with a liquid.

Example: US-A1-2010/126537

**B08B 3/08**

the liquid having chemical or dissolving effect

Definition statement

This place covers:

The cleaning of objects by means of contacting with a liquid having chemical or dissolving effect in addition to the mechanical action of the liquid.

B08B 3/10

with additional treatment of the liquid or of the object being cleaned, e.g. by heat, by electricity or by vibration

Definition statement

This place covers:

The cleaning of objects while these are contacted with a liquid and whereby the liquid or the object is subjected to an additional treatment.

B08B 3/102

{with means for agitating the liquid (by agitating the container [B08B 3/042](#), [B08B 3/044](#), [B08B 3/045](#), [B08B 3/06](#))}

Definition statement

This place covers:

Subjecting the liquid to agitation.

B08B 3/104

{using propellers}

Definition statement

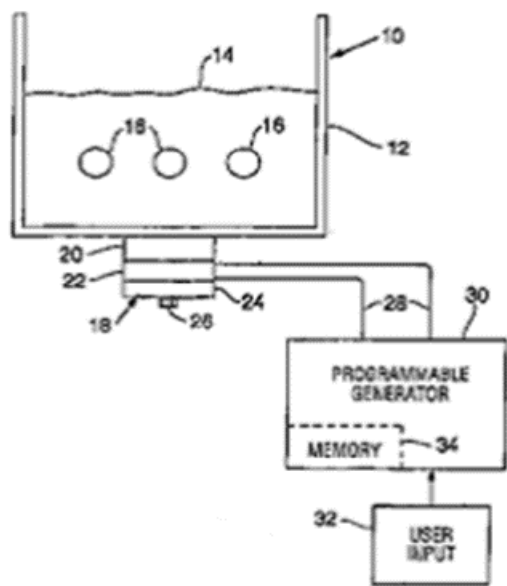
This place covers:
Subjecting the liquid to agitation by means of propellers.

B08B 3/12

by sonic or ultrasonic vibrations

Definition statement

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



The Figure illustrates a cleaning tank (12) containing a cleaning liquid (14) and pieces (16) to be cleaned. Ultrasonic energy is supplied to the cleaning liquid by an ultrasonic transducer (18).

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:

Washing or rinsing machines for crockery or tableware using sonic or ultrasonic waves	A47L 15/13
Cleaning of natural teeth, of prostheses using ultrasonic techniques similar to those used for natural teeth	A61C 17/20

Informative references

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

Application of ultrasonic vibrations to chemical, physical or physico-chemical processes in general	B01J 19/10
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B08B 3/123

{Cleaning travelling work, e.g. webs, articles on a conveyor (conveyors [B65G](#); handling webs [B65H](#))}

Definition statement

This place covers:

Subjecting the object or the liquid to sonic or ultrasonic vibrations while the objects are travelling.

B08B 3/14

Removing waste, e.g. labels, from cleaning liquid

Definition statement

This place covers:

The additional treatment of the liquid by removing contaminants from the liquid after the liquid has been used in a cleaning process, i.e. regenerating cleaning liquids.

Illustrative examples of subject matter classified in this place:

1.

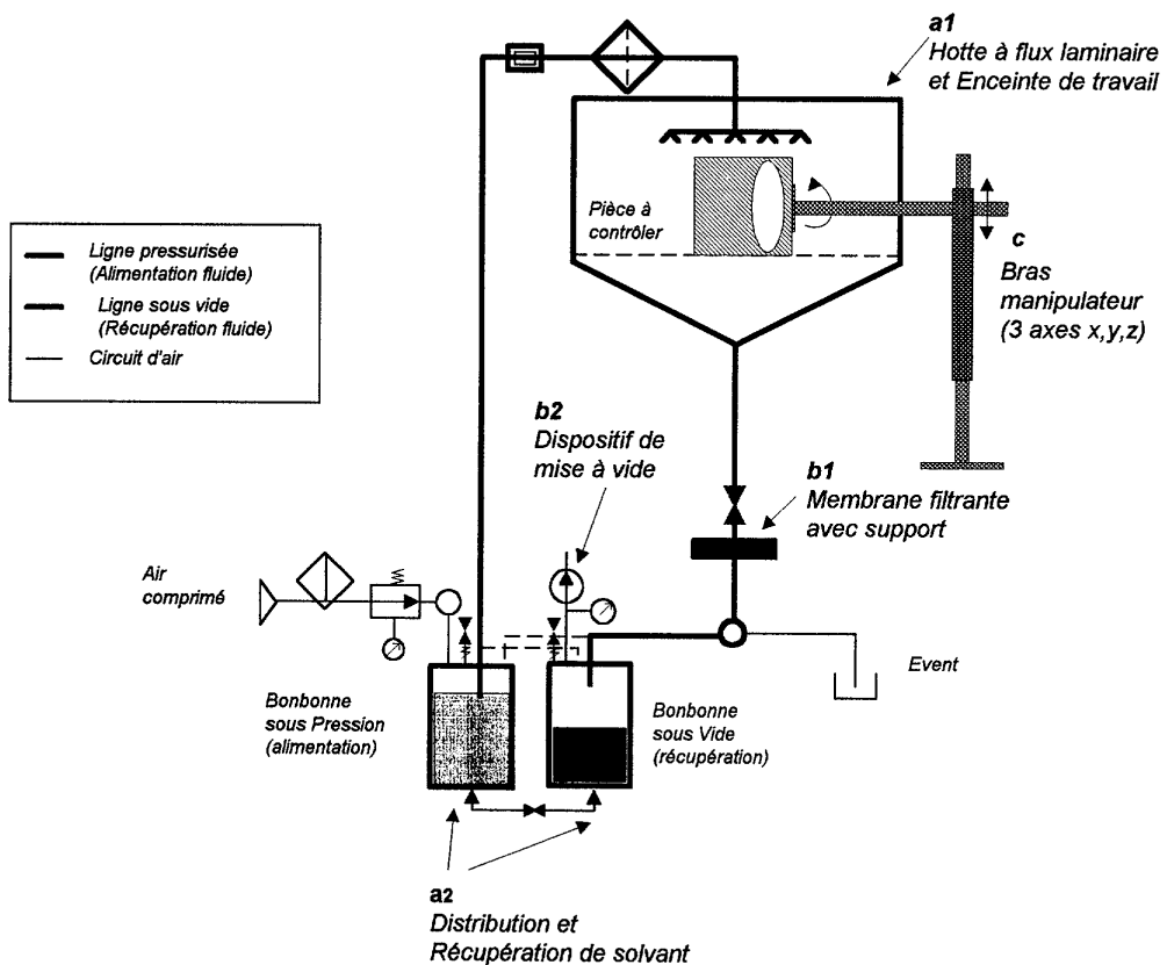
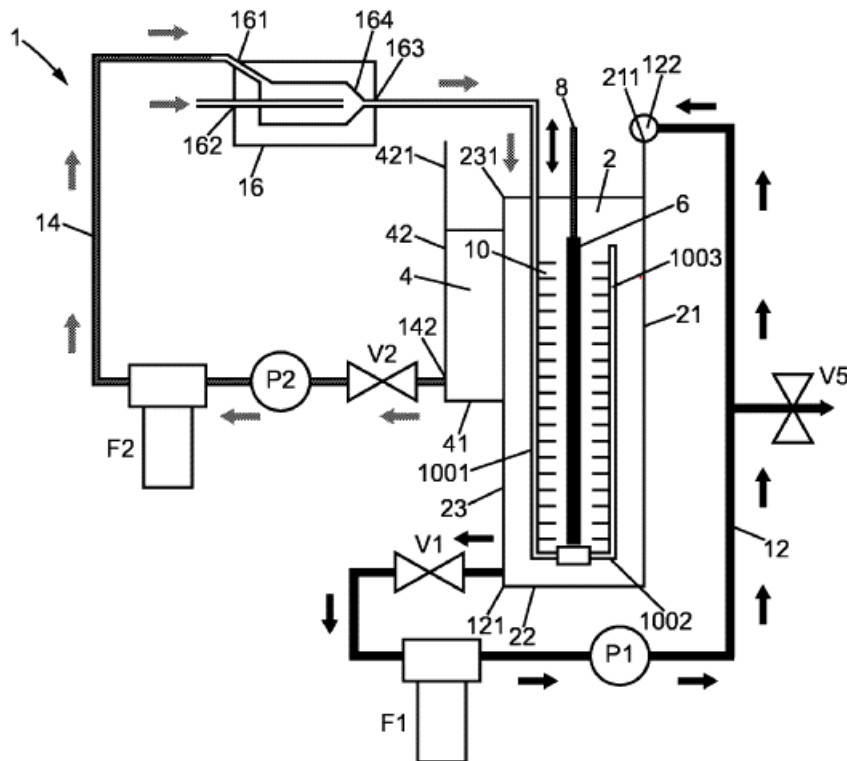


Figure 1 illustrates a device with three modules: a vertical non-recycling laminar flow extraction hood (a1); a dust-controlled working area (a2) with solvent distribution and recovery, and a filter membrane (b1) with means of evacuation (b2) including or not a particle counter; a manipulating arm (c) for facilitating production and manipulation of large items in the working area.

2.



References

Informative references

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

Treatment of water in general	C02F
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B08B 5/00

Cleaning by methods involving the use of air flow or gas flow (cleaning hollow articles by methods or apparatus specially adapted thereto [B08B 9/00](#))

Definition statement

This place covers:

Processes or apparatus for the cleaning of objects by means of a gas.

Relationships with other classification places

Removing cleaning liquid by means of a gas from an object is not considered cleaning and should not be classified in [B08B](#). The removal of cleaning liquid by means of a gas is considered drying in the sense of subclass [F26B](#).

References

Limiting references

This place does not cover:

Cleaning hollow articles by methods or apparatus specially adapted thereto	B08B 9/00
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Informative references

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

Cleaning by electrostatic means	B08B 6/00
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B08B 5/02

Cleaning by the force of jets, e.g. blowing-out cavities {(airguns or nozzles per se [B05B 1/005](#))}

Definition statement

This place covers:

The cleaning of objects by means of the mechanical action of a gas jet.

B08B 5/04

Cleaning by suction, with or without auxiliary action

Definition statement

This place covers:

Processes or apparatus for the cleaning of objects by means of the mechanical action of suction.

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:

Suction cleaners	A47L
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Informative references

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

Cleaning by the force of jets, e.g. blowing-out cavities	B08B 5/02
Cleaning internal surfaces by suction	B08B 9/035

B08B 6/00

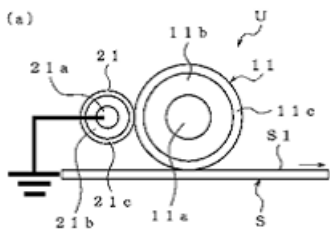
Cleaning by electrostatic means

Definition statement

This place covers:

Processes and apparatus for the cleaning of objects by means of electrostatic action on the contaminants.

Illustrative example of subject matter classified in this place:



The Figure illustrates a cleaning roller (11) brought into contact with the surface (S1) of a material to be cleaned (S), and the foreign materials which are adhered on the surface (S1) are removed using an electrostatic force.

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:

Domestic cleaning implements functioning electrostatically	A47L 13/40
Electrostatic separation of solid materials	B03C
Cleaning of grooved record carriers	G11B 3/58

B08B 7/0007

{by explosions}

Definition statement

This place covers:

The cleaning of objects by means of subjecting the objects to an explosion.

Example: US-A1-2004216698

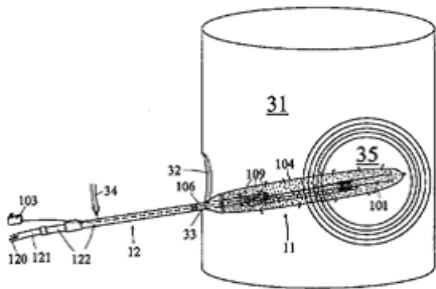
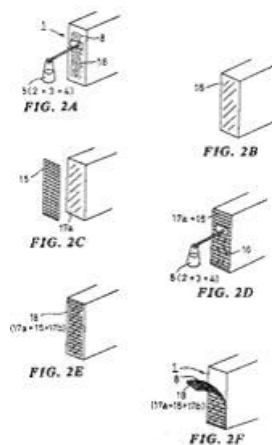


FIG. 3

B08B 7/0014**{by incorporation in a layer which is removed with the contaminants}****Definition statement***This place covers:*

The cleaning of objects by means of applying a layer to a contaminated surface, into which layer contaminants become incorporated, and removing the layer with the contaminants.

Example US-A-6123777

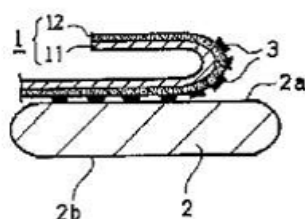
**B08B 7/0021****{by liquid gases or supercritical fluids}****Definition statement***This place covers:*

The cleaning of objects by means of subjecting the objects to the washing action of a liquid gas or a supercritical fluid.

B08B 7/0028**{by adhesive surfaces}****Definition statement***This place covers:*

The cleaning of objects by means of applying a tacky layer to a contaminated surface, onto which layer contaminants become attached, and removing the layer with the contaminants.

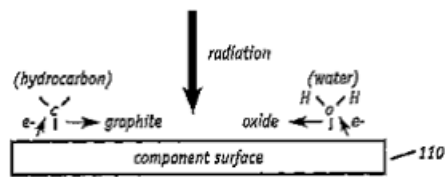
Example: JP-A-8274059



B08B 7/0035**{by radiant energy, e.g. UV, laser, light beam or the like}****Definition statement***This place covers:*

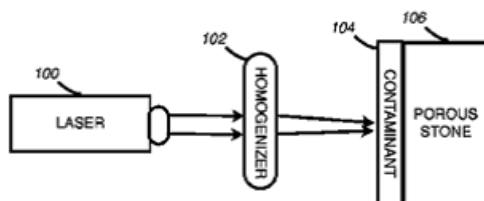
The cleaning of objects by means of subjecting the objects to the action of radiant energy.

Example: WO-A1-02/052347

**B08B 7/0042****{by laser}****Definition statement***This place covers:*

The cleaning of objects by means of subjecting the objects to laser radiation.

Example: US-A1-2011/007308

**B08B 7/0064****{by temperature changes}****Definition statement***This place covers:*

The cleaning of objects by means of subjecting the objects to temperature changes.

B08B 7/02

by distortion, beating, or vibration of the surface to be cleaned {([B08B 7/0007](#) takes precedence)}

Definition statement

This place covers:

Example: GB-A-2336428

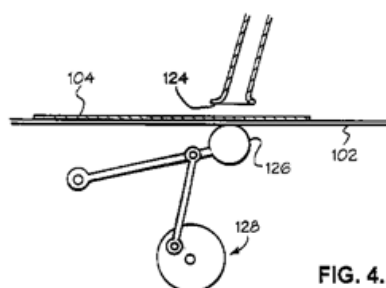


FIG. 4.

B08B 9/00

Cleaning hollow articles by methods or apparatus specially adapted thereto

Definition statement

This place covers:

The cleaning of hollow objects by methods or apparatus specially adapted thereto, the objects being other than containers or pipes.

References**Informative references**

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

Cleaning by sonic or ultrasonic vibrations	B08B 3/12
Cleaning by methods involving the use of air flow or gas flow	B08B 5/00
Cleaning by electrostatic means	B08B 6/00

B08B 9/02

Cleaning pipes or tubes or systems of pipes or tubes (apparatus for cleaning metal pipes by chemical methods [C23G 3/04](#))

References**Limiting references**

This place does not cover:

Apparatus for cleaning metal pipes by chemical methods	C23G 3/04
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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:

Removing obstructions in waste pipes or sinks	E03C 1/30
Cleaning sewer pipes	E03F 9/00
Methods or apparatus for cleaning boreholes or wells	E21B 37/00
Cleaning furnace tubes; Cleaning flues or chimneys	F23J 3/02
Cleaning heat-transfer conduits, e.g. water tubes of boilers	F28G

B08B 9/021

{Cleaning pipe ends or pipe fittings, e.g. before soldering}

References

Informative references

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

Machines or devices designed for grinding end-faces of tubes	B24B 9/007
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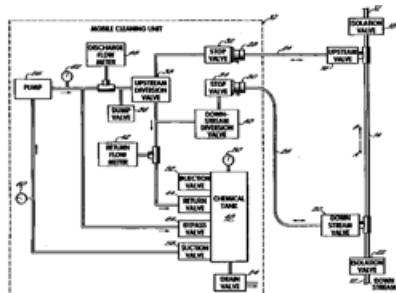
B08B 9/0321

{using pressurised, pulsating or purging fluid ([E04F 17/126](#) takes precedence)}

Definition statement

This place covers:

Example: WO-A-97/15406



Special rules of classification

In this group "Purging" is to be understood as "flushing". The concept of the group is that the pipe is being flushed.

The idea of the parent group [B08B 9/032](#) is to cover subject-matter involving mechanical action with a cleaning fluid which is not classifiable in any of the subgroups.

B08B 9/0328

{by purging the pipe with a gas or a mixture of gas and liquid}

References**Informative references**

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

Cleaning by the force of jets, e.g. blowing-out cavities	B08B 5/02
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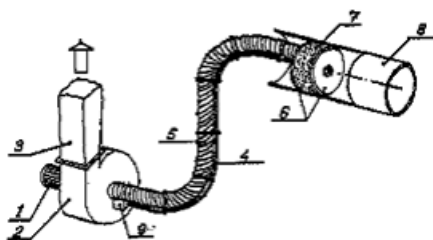
B08B 9/035

by suction

Definition statement

This place covers:

Example: WO85/02565

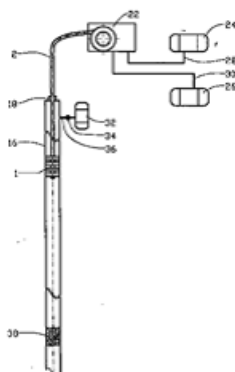
**B08B 9/043**

moved by externally powered mechanical linkage, e.g. pushed or drawn through the pipes

Definition statement

This place covers:

Example: WO-A1-03/095792



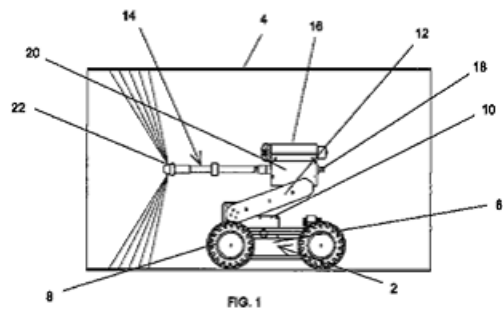
B08B 9/049

having self-contained propelling means for moving the cleaning devices along the pipes {, i.e. self-propelled}

Definition statement

This place covers:

Example: US-A1-2008/001005



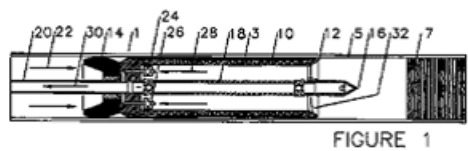
B08B 9/053

moved along the pipes by a fluid, e.g. by fluid pressure or by suction

Definition statement

This place covers:

Example: US-A1-2010/012151



B08B 9/055

the cleaning devices conforming to, or being conformable to, substantially the same cross-section of the pipes, {e.g. pigs or moles (pigs or moles per se [F16L 55/26](#); their launching and detection [F16L 55/46](#); separating pigs in pipelines [F17D 3/00](#))}

References

Informative references

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

Pigs or moles in general, i.e. devices movable in a pipe or conduit with or without self-contained propulsion means	F16L 55/26
Launching or retrieval of pigs or moles	F16L 55/46
Separating pigs in pipelines	F17D 3/00

B08B 9/08**Cleaning containers, e.g. tanks****Definition statement**

This place covers:

The cleaning of inner and/or outer surfaces of containers by methods or apparatus specially adapted thereto.

B08B 9/0804

**{Cleaning containers having tubular shape, e.g. casks, barrels, drums
([B08B 9/20](#) take precedence)}**

Definition statement

This place covers:

The cleaning of containers, whereby the tubular shape of the container is essential to the definition of the cleaning method or apparatus.

B08B 9/0808

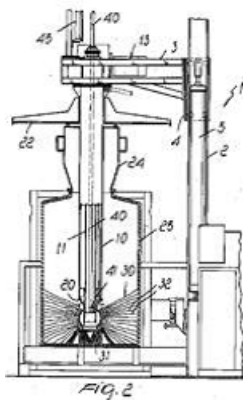
{by methods involving the use of tools, e.g. by brushes, scrapers}

Definition statement

This place covers:

The cleaning of containers by means of mechanical members, whereby the shape of the container is essential to the definition of the mechanical member used.

Example: EP-A1-1236521

**B08B 9/0813**

{by the force of jets or sprays}

Definition statement

This place covers:

The cleaning of containers by means of a fluid jet, whereby the shape of the container is essential to the definition of the fluid jet applied.

B08B 9/087

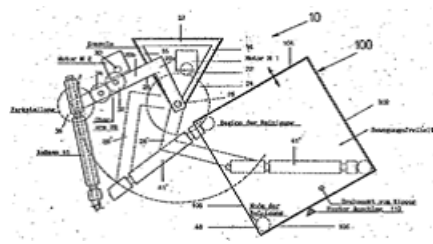
by methods involving the use of tools, e.g. brushes, scrapers ({[B08B 9/0808](#)}, [B08B 9/20](#) take precedence)

Definition statement

This place covers:

The cleaning of containers by means of mechanical members, whereby the shape of the container is not essential to the definition of the mechanical member used.

Example: DE-C1-3311117

**B08B 9/093**

by the force of jets or sprays ({[B08B 9/0813](#)}, [B08B 9/20](#) take precedence)

Definition statement

This place covers:

The cleaning of containers by means of a fluid jet, whereby the shape of the container is not essential to the definition of the fluid jet applied.

B08B 9/0933

{Removing sludge or the like from tank bottoms}

Definition statement

This place covers:

The removal of sludge, sediment or the like from container bottoms, using a fluid jet to fluidize the sludge, sediment or the like.

B08B 9/20

by using apparatus into or on to which containers, e.g. bottles, jars, cans are brought {(washing or rinsing crockery or tableware [A47L 15/00](#))}

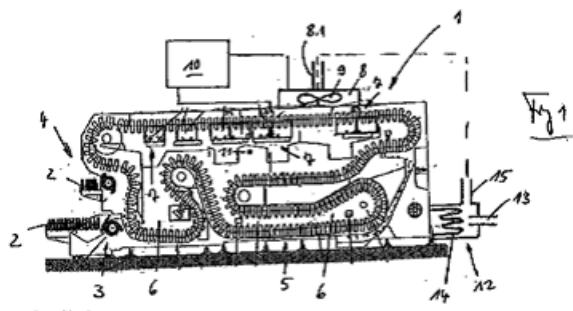
Definition statement

This place covers:

Methods and apparatus for the cleaning of series of bottles.

Definition statement

Example: WO-A1-2009/124688

**B08B 9/205****{Conveying containers to or from the cleaning machines}****Definition statement***This place covers:*

The cleaning method or apparatus being characterized by the method or apparatus for conveying the bottles to or from the cleaning machine.

B08B 9/44**the means being for loading or unloading the apparatus****Definition statement***This place covers:*

The cleaning method or apparatus being characterized by the method or apparatus for loading or unloading the bottles.

B08B 9/46**Inspecting cleaned containers for cleanliness****Definition statement***This place covers:*

The cleaning method or apparatus being characterized by the method or apparatus for inspecting cleaned bottles.

B08B 11/00**Cleaning flexible or delicate articles by methods or apparatus specially adapted thereto****References****Informative references**

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

Cleaning by sonic or ultrasonic vibrations	B08B 3/12
Cleaning by electrostatic means	B08B 6/00

B08B 11/04

specially adapted for plate glass, e.g. prior to manufacture of windshields

References**Informative references**

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

Cleaning the gap between permanently secured panes	E06B 3/677
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B08B 15/00

**Preventing escape of dirt or fumes from the area where they are produced;
Collecting or removing dirt or fumes from that area**

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:

Parts, details or accessories of cooking-vessels for withdrawing or condensing cooking vapours from such vessels	A47J 36/38
Removing cooking fumes from domestic stoves or ranges	F24C 15/20

Informative references

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

Refuse disposal	B65F
Devices for conducting smoke or fumes, e.g. flues	F23J 11/00
Air-conditioning or ventilation	F24F

B08B 15/002

{using a central suction system, e.g. for collecting exhaust gases in workshops (removing dust from textile machines [D01H 11/00](#); ventilation of mines, galleries or tunnels, e.g. traffic tunnels, [E21F 1/00](#))}

Definition statement

This place covers:

Collecting or removing dirt or fumes from the area where these are produced using a central suction system to which a plurality of collecting or removing devices are connected.

B08B 15/005

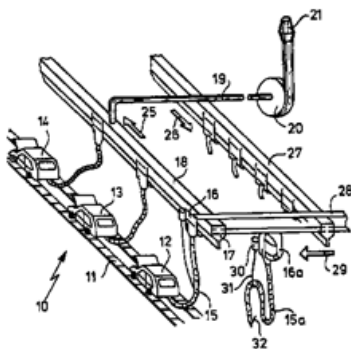
{comprising a stationary main duct with one or more branch units, the branch units being freely movable along a sealed longitudinal slit in the main duct}

Definition statement

This place covers:

Branch units configured to move along a sealed longitudinal slit in a main duct, the branch units travelling with a source of dirt or fumes.

Example: EP-A1-0174481

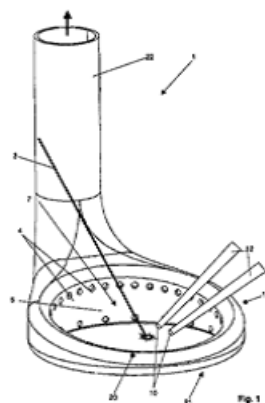
**B08B 15/007**

{Fume suction nozzles arranged on a closed or semi-closed surface, e.g. on a circular, ring-shaped or rectangular surface adjacent the area where fumes are produced ([B08B 15/04](#) takes precedence)}

Definition statement

This place covers:

Example: DE-A1-102004031881



B08B 17/06

by giving articles subject to fouling a special shape or arrangement

Definition statement

This place covers:

Preventing fouling or deposition of fouling or of dust by means of giving articles subject to fouling a shape or arrangement such that fouling or deposition of fouling or of dust will be minimized or eliminated, e.g. by application of the lotus effect.

Example: DE-A1-102005013560

