

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

### B08 CLEANING

**B08B CLEANING IN GENERAL; PREVENTION OF FOULING IN GENERAL** (brushes A46; devices for domestic or like cleaning A47L; separation of particles from liquids or gases B01D; separation of solids B03, B07; spraying or applying liquids or other fluent materials to surfaces in general B05; cleaning devices for conveyers B65G 45/10; concurrent cleaning, filling and closing of bottles B67C 7/00; inhibiting corrosion or incrustation in general C23; cleaning streets, permanent ways, beaches or land E01H; parts, details or accessories of swimming or splash baths or pools, specially adapted for cleaning E04H 4/16; preventing or removing electrostatic charges H05F)

#### Note(s)

This subclass covers only cleaning, which is usually classified according to one (or more) of the aspects mentioned below, if it is not fully classifiable in a subclass providing for any of the following aspects:

- the articles cleaned, e.g. bed-pans, urinal or other sanitary devices for bed-ridden persons A61G 9/02, filters, semi-permeable membranes B01D, castings and moulds B22D 29/00, vehicles B60S, coke ovens C10B 43/00, building forms E04G, boilers F22, combustion apparatus F23J, furnaces F27;
- the general nature of the cleaning, e.g. preparing for sugar manufacture A23N, domestic cleaning A47L, treatment of textiles D06, laundry D06F, air-conditioning F24F;
- the particular operation performed, e.g. filtering B01D, separating of solids B03, B07, sand-blasting B24C;
- the particular apparatus or device, e.g. brushes A46B, mops A47L, centrifuges B04, hand tools B25;
- the substance cleaned, e.g. metals B21C, C23, water C02, glass C03C, leather C14B, textile fibres D01;
- the substance removed (or prevented from depositing or forming), e.g. implements or apparatus for removing dry paint from surfaces B44D 3/16, chemical paint-removers C09D 9/00, preventing rust C23F;
- the substance used, e.g. macromolecular compounds or compositions C08, anti-icing materials C09K, detergents C11D;
- the operation in connection with which cleaning is done, e.g. metal rolling B21B, metal boring B23B, soldering B23K, textile fabrication D01G, D01H, D03J, D04B;
- the surroundings of a surface to be cleaned or kept clean, e.g. water in a boiler C02F, air in a room F24F.

#### Subclass index

CLEANING CHARACTERISED BY THE MEANS USED.....1/00, 3/00, 5/00, 6/00, 7/00  
 CLEANING HOLLOW, FLEXIBLE OR DELICATE ARTICLES.....9/00, 11/00  
 ACCESSORIES OR DETAILS OF MACHINES.....13/00  
 PREVENTING FOULING OR ESCAPE OF DIRT OR FUMES.....15/00, 17/00

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| <p><b>1/00</b>    <b>Cleaning by methods involving the use of tools, brushes, or analogous members</b> (B08B 3/12, B08B 6/00, B08B 9/00 take precedence) [2]</p> <p>1/02    • Cleaning travelling work, e.g. a web, articles on a conveyer</p> <p>1/04    • using rotary operative members (B08B 1/02 takes precedence)</p> <p><b>3/00</b>    <b>Cleaning by methods involving the use or presence of liquid or steam</b> (B08B 9/00 takes precedence)</p> <p>3/02    • Cleaning by the force of jets or sprays</p> <p>3/04    • Cleaning involving contact with liquid</p> <p>3/06    • • using perforated drums in which the article or material is placed</p> <p>3/08    • • the liquid having chemical or dissolving effect (substances used, <u>see</u> the relevant classes)</p> <p>3/10    • • with additional treatment of the liquid or of the object being cleaned, e.g. by heat, by electricity, by vibration</p> | <p>3/12    • • • by sonic or ultrasonic vibrations (washing or rinsing machines for crockery or tableware using sonic or ultrasonic waves A47L 15/13; of natural teeth, of prostheses using ultrasonic techniques similar to those used for natural teeth A61C 17/20; application of ultrasonic vibrations to chemical, physical, or physico-chemical processes in general B01J 19/10) [2, 5]</p> <p>3/14    • • • Removing waste, e.g. labels, from cleaning liquid (treatment of water in general C02F) [5]</p> <p><b>5/00</b>    <b>Cleaning by methods involving the use of air flow or gas flow</b> (B08B 6/00, B08B 9/00 take precedence) [2, 7]</p> <p>5/02    • Cleaning by the force of jets, e.g. blowing-out cavities</p> <p>5/04    • Cleaning by suction, with or without auxiliary action (suction cleaners A47L)</p> <p><b>6/00</b>    <b>Cleaning by electrostatic means</b> (domestic cleaning implements functioning electrostatically A47L 13/40; cleaning of grooved record carriers G11B 3/58) [2]</p> |
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## B08B

- 7/00 Cleaning by methods not provided for in a single other subclass or a single group in this subclass**
- 7/02 • by distortion, beating, or vibration of the surface to be cleaned
  - 7/04 • by a combination of operations
- 9/00 Cleaning hollow articles by methods or apparatus specially adapted thereto** (B08B 3/12, B08B 6/00 take precedence) [2]
- 9/02 • Cleaning pipes or tubes or systems of pipes or tubes (apparatus for cleaning metal pipes by chemical methods C23G 3/04) [5]
  - 9/023 • • Cleaning the external surfaces [7]
  - 9/027 • • Cleaning the internal surfaces; Removal of blockages [7]
  - 9/032 • • • by the mechanical action of a moving fluid, e.g. by flushing (B08B 9/04 takes precedence) [7]
  - 9/035 • • • • by suction [7]
  - 9/04 • • • using cleaning devices introduced into and moved along the pipes [1, 7]
  - 9/043 • • • • moved by externally powered mechanical linkage, e.g. pushed or drawn through the pipes [7]
  - 9/045 • • • • • the cleaning devices being rotated while moved (B08B 9/047 takes precedence) [7]
  - 9/047 • • • • • the cleaning devices having motors for powering cleaning tools [7]
  - 9/049 • • • • having self-contained propelling means for moving the cleaning devices along the pipes [7]
  - 9/051 • • • • • the cleaning devices having motors for powering cleaning tools [7]
  - 9/053 • • • • moved along the pipes by a fluid, e.g. by fluid pressure or by suction [7]
  - 9/055 • • • • • the cleaning devices conforming to, or being conformable to, substantially the cross-section of the pipes, e.g. pigs or moles [7]
  - 9/057 • • • • • the cleaning devices being entrained discrete elements, e.g. balls, grinding elements, brushes [7]
  - 9/08 • Cleaning of containers, e.g. tanks
  - 9/087 • • by methods involving the use of tools, e.g. brushes, scrapers (B08B 9/20 takes precedence) [5]
  - 9/093 • • by the force of jets or sprays (B08B 9/20 takes precedence) [5]

- 9/20 • • by using apparatus into or on to which containers, e.g. bottles, jars, cans, are brought [5]
  - 9/22 • • • the apparatus cleaning by soaking alone [5]
  - 9/24 • • • • and having conveyers [5]
  - 9/26 • • • • • Rotating conveyers [5]
  - 9/28 • • • the apparatus cleaning by splash, spray or jet application, with or without soaking [5]
  - 9/30 • • • • and having conveyers [5]
  - 9/32 • • • • • Rotating conveyers [5]
  - 9/34 • • • • Arrangement of conduits or nozzles [5]
  - 9/36 • • • the apparatus cleaning by using brushes [5]
  - 9/38 • • • the apparatus cleaning by using scrapers, chains, grains of shot, sand or other abrasive means (abrasive blasting in general B24C) [5]
  - 9/40 • • • the apparatus cleaning by burning out [5]
  - 9/42 • • • the apparatus being characterised by means for conveying or carrying containers therethrough [5]
  - 9/44 • • • • the means being for loading or unloading the apparatus [5]
  - 9/46 • • Inspecting cleaned containers for cleanliness [5]
- 11/00 Cleaning flexible or delicate articles by methods or apparatus specially adapted thereto** (B08B 3/12, B08B 6/00 take precedence) [2]
- 11/02 • Devices for holding articles during cleaning
  - 11/04 • specially adapted for plate glass, e.g. prior to manufacture of windshields (cleaning the gap between permanently secured panes E06B 3/677)
- 13/00 Accessories or details of general applicability for machines or apparatus for cleaning**
- 15/00 Preventing escape of dirt or fumes from the area where they are produced; Collecting or removing dirt or fumes from that area** (parts, details or accessories of cooking-vessels for withdrawing or condensing cooking vapours from such vessels A47J 36/38; refuse disposal B65F; devices for conducting smoke or fumes, e.g. flues, F23J 11/00; removing cooking fumes from domestic stoves or ranges F24C 15/20; air-conditioning, ventilation F24F) [5]
- 15/02 • using chambers or hoods covering the area
  - 15/04 • from a small area, e.g. a tool
- 17/00 Methods preventing fouling**
- 17/02 • Preventing deposition of fouling or of dust
  - 17/04 • • by using removable coverings
  - 17/06 • • by giving articles subject to fouling a special shape for arrangement