

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B30 PRESSES

B30B PRESSES IN GENERAL; PRESSES NOT OTHERWISE PROVIDED FOR (producing ultra-high pressure or ultra-high pressure and high temperature to effect modifications of a substance, e.g. for making artificial diamonds B01J 3/00) [2]

Subclass index

PRESSES CHARACTERISED BY OPERATION OF PRESSING MECHANISMS.....1/00, 3/00, 5/00, 7/00
 PRESSES FOR SPECIAL PURPOSES.....9/00, 11/00
 OTHER PRESSES.....12/00
 DETAILS, ACCESSORIES, CONTROL.....15/00
 OTHER PRESSING METHODS.....13/00

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| <p>1/00 Presses, using a press ram, characterised by the features of the drive therefor, pressure being transmitted directly, or through simple thrust or tension members only, to the press ram or platen [1, 2006.01]</p> <p>1/02 • by lever mechanism (by toggle mechanism B30B 1/10) [1, 2006.01]</p> <p>1/04 • • operated by hand or foot [1, 2006.01]</p> <p>1/06 • • operated by cams, eccentrics, or cranks [1, 2006.01]</p> <p>1/08 • • operated by fluid-pressure means [1, 2006.01]</p> <p>1/10 • by toggle mechanism [1, 2006.01]</p> <p>1/12 • • operated by hand or foot [1, 2006.01]</p> <p>1/14 • • operated by cams, eccentrics, or cranks [1, 2006.01]</p> <p>1/16 • • operated by fluid-pressure means [1, 2006.01]</p> <p>1/18 • by screw means [1, 2006.01]</p> <p>1/20 • • driven by hand [1, 2006.01]</p> <p>1/22 • • driven through friction disc means [1, 2006.01]</p> <p>1/23 • • operated by fluid-pressure means [2, 2006.01]</p> <p>1/24 • by rack-and-pinion means [1, 2006.01]</p> <p>1/26 • by cams, eccentrics, or cranks [1, 2006.01]</p> <p>1/28 • • the cam, crank, or eccentric being disposed below the lower platen or table and operating to pull down the upper platen or slide [1, 2006.01]</p> <p>1/30 • by the pull of chains or ropes [1, 2006.01]</p> <p>1/32 • by plungers under fluid pressure [1, 2006.01]</p> <p>1/34 • • involving a plurality of plungers acting on the platen (gas operated B30B 1/38) [1, 2006.01]</p> <p>1/36 • • having telescoping plungers (gas operated B30B 1/38) [1, 2006.01]</p> <p>1/38 • • wherein the plungers are operated by pressure of a gas, e.g. steam, air [1, 2006.01]</p> <p>1/40 • by wedge means [1, 2006.01]</p> <p>1/42 • by magnetic means, e.g. electromagnetic [2, 2006.01]</p> <p>3/00 Presses characterised by the use of rotary pressing members, e.g. rollers, rings, discs [1, 2006.01]</p> <p>3/02 • co-operating with a fixed member [1, 2006.01]</p> <p>3/04 • co-operating with one another, e.g. with co-operating cones [1, 2006.01]</p> | <p>3/06 • • arranged one within another, e.g. with a roller disposed within a rotating ring and co-operating with the inner surface thereof [1, 2006.01]</p> <p>5/00 Presses characterised by the use of pressing means other than those mentioned in groups B30B 1/00 and B30B 3/00 [1, 2006.01]</p> <p>5/02 • wherein the pressing means is in the form of a flexible element, e.g. diaphragm, urged by fluid pressure [1, 2, 2006.01]</p> <p>5/04 • wherein the pressing means is in the form of an endless band [1, 2006.01]</p> <p>5/06 • • co-operating with another endless band [1, 2006.01]</p> <p>7/00 Presses characterised by a particular arrangement of the pressing members [1, 2006.01]</p> <p>7/02 • having several platens arranged one above the other [1, 2006.01]</p> <p>7/04 • wherein pressing is effected in different directions simultaneously or in turn [1, 2006.01]</p> <p>9/00 Presses specially adapted for particular purposes [1, 2006.01]</p> <p>9/02 • for squeezing-out liquid from liquid-containing material, e.g. juice from fruits, oil from oil-containing material (kitchen equipment A47J; filtering, e.g. straining solids from liquids, using presses in combination with filtering elements B01D; expelling water from textile fabrics or laundry D06C, D06F; drying F26) [1, 2006.01]</p> <p>9/04 • • using press rams [1, 2006.01]</p> <p>9/06 • • • co-operating with permeable casings or strainers [1, 2006.01]</p> <p>9/08 • • • co-operating with a rotary casing [1, 2006.01]</p> <p>9/10 • • • without use of a casing [1, 2006.01]</p> <p>9/12 • • using pressing worms or screws co-operating with a permeable casing [1, 2006.01]</p> <p>9/14 • • • operating with only one screw or worm [1, 2006.01]</p> <p>9/16 • • • operating with two or more screws or worms [1, 2006.01]</p> <p>9/18 • • • with means for adjusting the outlet for the solid [1, 2006.01]</p> |
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- 9/20 • • using rotary pressing members, other than worms or screws, e.g. rollers, rings, discs [1, 2006.01]
- 9/22 • • using a flexible element, e.g. diaphragm, urged by fluid pressure (connection of valves to inflatable elastic bodies B60C 29/00) [1, 3, 2006.01]
- 9/24 • • using an endless pressing band [1, 2006.01]
- 9/26 • • Permeable casings or strainers [1, 2006.01]
- 9/28 • for forming shaped articles (from material in powder, granular, or paste form, e.g. briquetting presses, B30B 11/00) [1, 2006.01]
- 9/30 • for baling; Compression boxes therefor (baling hay, straw, or the like A01F) [1, 2006.01]
- 9/32 • for consolidating scrap metal or for compacting used cars [1, 2006.01]
- 11/00 Presses specially adapted for forming shaped articles from material in particulate or plastic state, e.g. briquetting presses, tableting presses** (apparatus for forming or shaping of dough A21C 3/00, A21C 11/00; apparatus for shaping clay or mixtures containing cement B28B; apparatus for shaping of plastic or substances in a plastic state B29, e.g. for compression moulding B29C 43/00, for extrusion moulding B29C 47/00) [1, 2006.01]
- 11/02 • using a ram exerting pressure on the material in a moulding space [1, 2006.01]
- 11/04 • • co-operating with a fixed mould [1, 2006.01]
- 11/06 • • • each charge of the material being compressed against the previously formed body [1, 2006.01]
- 11/08 • • co-operating with moulds carried by a turn-table [1, 2006.01]
- 11/10 • • • intermittently rotated [1, 2006.01]
- 11/12 • • co-operating with moulds on the circumference of a rotating drum [1, 2006.01]
- 11/14 • • co-operating with moulds on a movable carrier other than a turn-table or a rotating drum [1, 2006.01]
- 11/16 • using pocketed rollers, e.g. two co-operating pocketed rollers [1, 2006.01]
- 11/18 • using profiled rollers [1, 2006.01]
- 11/20 • Roller-and-ring machines, i.e. with roller disposed within a ring and co-operating with the inner surface of the ring [1, 2006.01]
- 11/22 • Extrusion presses; Dies therefor (extruding by the use of roller-and-ring machines B30B 11/20) [1, 2006.01]
- 11/24 • • using screws or worms [1, 2006.01]
- 11/26 • • using press rams [1, 2006.01]
- 11/28 • • using perforated rollers or discs [1, 2006.01]
- 11/30 • • using directly-acting fluid pressure [1, 2006.01]
- 11/34 • for coating articles, e.g. tablets [1, 2006.01]
- 12/00 Presses not provided for in groups B30B 1/00-B30B 11/00** [2, 2006.01]
- 13/00 Methods of pressing not special to the use of presses of any one of the preceding main groups B30B 1/00-B30B 12/00** [1, 2, 2006.01]
- 15/00 Details of, or accessories for, presses; Auxiliary measures in connection with pressing** (safety devices F16P) [1, 2006.01]
- 15/02 • Dies; Inserts therefor; Mountings thereof; Moulds (extrusion dies B30B 11/22) [1, 2006.01]
- 15/04 • Frames; Guides [1, 2006.01]
- 15/06 • Platens or press rams [1, 2006.01]
- 15/08 • Accessory tools, e.g. knives; Mountings therefor [1, 2006.01]
- 15/10 • Brakes specially adapted for presses [1, 2006.01]
- 15/12 • Clutches specially adapted for presses [1, 2006.01]
- 15/14 • Control arrangements for mechanically-driven presses [1, 2006.01]
- 15/16 • Control arrangements for fluid-driven presses (pumps per se F04; hydraulic accumulators per se F15B; valves per se F16K) [1, 2006.01]
- 15/18 • • controlling the reciprocating motion of the ram [1, 2006.01]
- 15/20 • • • controlling the speed of the ram, e.g. the speed of the approach, pressing or return strokes [1, 2006.01]
- 15/22 • • controlling the degree of pressure applied by the ram during the pressing stroke [1, 2006.01]
- 15/24 • • controlling the movement of a plurality of actuating members to maintain parallel movement of the platen or press beam [1, 2006.01]
- 15/26 • Programme control arrangements [1, 2006.01]
- 15/28 • Arrangements for preventing distortion of, or damage to, presses or parts thereof [1, 2006.01]
- 15/30 • Feeding material to presses [1, 2006.01]
- 15/32 • Discharging presses [1, 2006.01]
- 15/34 • Heating or cooling presses or parts thereof [1, 2006.01]