

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

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| 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 | 5/00 | Presses characterised by the use of pressing means other than those mentioned in groups B30B 1/00 and B30B 3/00 |
| 1/02 | • by lever mechanism (by toggle mechanism B30B 1/10) | 5/02 | • wherein the pressing means is in the form of a flexible element, e.g. diaphragm, urged by fluid pressure [2] |
| 1/04 | • • operated by hand or foot | 5/04 | • wherein the pressing means is in the form of an endless band |
| 1/06 | • • operated by cams, eccentrics, or cranks | 5/06 | • • co-operating with another endless band |
| 1/08 | • • operated by fluid-pressure means | 7/00 | Presses characterised by a particular arrangement of the pressing members |
| 1/10 | • by toggle mechanism | 7/02 | • having several platens arranged one above the other |
| 1/12 | • • operated by hand or foot | 7/04 | • wherein pressing is effected in different directions simultaneously or in turn |
| 1/14 | • • operated by cams, eccentrics, or cranks | 9/00 | Presses specially adapted for particular purposes |
| 1/16 | • • operated by fluid-pressure means | 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) |
| 1/18 | • by screw means | 9/04 | • • using press rams |
| 1/20 | • • driven by hand | 9/06 | • • • co-operating with permeable casings or strainers |
| 1/22 | • • driven through friction disc means | 9/08 | • • • co-operating with a rotary casing |
| 1/23 | • • operated by fluid-pressure means [2] | 9/10 | • • • without use of a casing |
| 1/24 | • by rack-and-pinion means | 9/12 | • • using pressing worms or screws co-operating with a permeable casing |
| 1/26 | • by cams, eccentrics, or cranks | 9/14 | • • • operating with only one screw or worm |
| 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 | 9/16 | • • • operating with two or more screws or worms |
| 1/30 | • by the pull of chains or ropes | 9/18 | • • • with means for adjusting the outlet for the solid |
| 1/32 | • by plungers under fluid pressure | 9/20 | • • using rotary pressing members, other than worms or screws, e.g. rollers, rings, discs |
| 1/34 | • • involving a plurality of plungers acting on the platen (gas operated B30B 1/38) | 9/22 | • • using a flexible element, e.g. diaphragm, urged by fluid pressure (connection of valves to inflatable elastic bodies B60C 29/00) [3] |
| 1/36 | • • having telescoping plungers (gas operated B30B 1/38) | 9/24 | • • using an endless pressing band |
| 1/38 | • • wherein the plungers are operated by pressure of a gas, e.g. steam, air | 9/26 | • • Permeable casings or strainers |
| 1/40 | • by wedge means | | |
| 1/42 | • by magnetic means, e.g. electromagnetic [2] | | |
| 3/00 | Presses characterised by the use of rotary pressing members, e.g. rollers, rings, discs | | |
| 3/02 | • co-operating with a fixed member | | |
| 3/04 | • co-operating with one another, e.g. with co-operating cones | | |
| 3/06 | • • arranged one within another, e.g. with a roller disposed within a rotating ring and co-operating with the inner surface thereof | | |

B30B

- 9/28 • for forming shaped articles (from material in powder, granular, or paste form, e.g. briquetting presses, B30B 11/00)
- 9/30 • for baling; Compression boxes therefor (baling hay, straw, or the like A01F)
- 9/32 • for consolidating scrap metal or for compacting used cars
- 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)
- 11/02 • using a ram exerting pressure on the material in a moulding space
- 11/04 • • co-operating with a fixed mould
- 11/06 • • • each charge of the material being compressed against the previously formed body
- 11/08 • • co-operating with moulds carried by a turn-table
- 11/10 • • • intermittently rotated
- 11/12 • • co-operating with moulds on the circumference of a rotating drum
- 11/14 • • co-operating with moulds on a movable carrier other than a turn-table or a rotating drum
- 11/16 • using pocketed rollers, e.g. two co-operating pocketed rollers
- 11/18 • using profiled rollers
- 11/20 • Roller-and-ring machines, i.e. with roller disposed within a ring and co-operating with the inner surface of the ring
- 11/22 • Extrusion presses; Dies therefor (extruding by the use of roller-and-ring machines B30B 11/20)
- 11/24 • • using screws or worms
- 11/26 • • using press rams
- 11/28 • • using perforated rollers or discs
- 11/30 • • using directly-acting fluid pressure
- 11/34 • for coating articles, e.g. tablets
- 12/00 Presses not provided for in groups B30B 1/00-B30B 11/00 [2]**
- 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 [2]**
- 15/00 Details of, or accessories for, presses; Auxiliary measures in connection with pressing** (safety devices F16P)
- 15/02 • Dies; Inserts therefor; Mountings thereof; Moulds (extrusion dies B30B 11/22)
- 15/04 • Frames; Guides
- 15/06 • Platens or press rams
- 15/08 • Accessory tools, e.g. knives; Mountings therefor
- 15/10 • Brakes specially adapted for presses
- 15/12 • Clutches specially adapted for presses
- 15/14 • Control arrangements for mechanically-driven presses
- 15/16 • Control arrangements for fluid-driven presses (pumps per se F04; hydraulic accumulators per se F15B; valves per se F16K)
- 15/18 • • controlling the reciprocating motion of the ram
- 15/20 • • • controlling the speed of the ram, e.g. the speed of the approach, pressing or return strokes
- 15/22 • • controlling the degree of pressure applied by the ram during the pressing stroke
- 15/24 • • controlling the movement of a plurality of actuating members to maintain parallel movement of the platen or press beam
- 15/26 • Programme control arrangements
- 15/28 • Arrangements for preventing distortion of, or damage to, presses or parts thereof
- 15/30 • Feeding material to presses
- 15/32 • Discharging presses
- 15/34 • Heating or cooling presses or parts thereof