

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]

PRESSES CHARACTERISED BY OPERATION OF PRESSING MECHANISMS	1/00, 3/00, 5/00, 7/00	OTHER PRESSES.....	12/00
PRESSES FOR SPECIAL PURPOSES	9/00, 11/00	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</p> <p>1/02 . by lever mechanism (by toggle mechanism B30B 1/10)</p> <p>1/04 . . operated by hand or foot</p> <p>1/06 . . operated by cams, eccentrics, or cranks</p> <p>1/08 . . operated by fluid-pressure means</p> <p>1/10 . by toggle mechanism</p> <p>1/12 . . operated by hand or foot</p> <p>1/14 . . operated by cams, eccentrics, or cranks</p> <p>1/16 . . operated by fluid-pressure means</p> <p>1/18 . by screw means</p> <p>1/20 . . driven by hand</p> <p>1/22 . . driven through friction disc means</p> <p>1/23 . . operated by fluid-pressure means [2]</p> <p>1/24 . by rack-and-pinion means</p> <p>1/26 . by cams, eccentrics, or cranks</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</p> <p>1/30 . by the pull of chains or ropes</p> <p>1/32 . by plungers under fluid pressure</p> <p>1/34 . . involving a plurality of plungers acting on the platen (gas operated B30B 1/38)</p> <p>1/36 . . having telescoping plungers (gas operated B30B 1/38)</p> <p>1/38 . . wherein the plungers are operated by pressure of a gas, e.g. steam, air</p> <p>1/40 . by wedge means</p> <p>1/42 . by magnetic means, e.g. electromagnetic [2]</p> <p>3/00 Presses characterised by the use of rotary pressing members, e.g. rollers, rings, discs</p> <p>3/02 . co-operating with a fixed member</p> <p>3/04 . co-operating with one another, e.g. with co-operating cones</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</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</p> <p>5/02 . wherein the pressing means is in the form of a flexible element, e.g. diaphragm, urged by fluid pressure [2]</p> <p>5/04 . wherein the pressing means is in the form of an endless band</p> <p>5/06 . . co-operating with another endless band</p> | <p>7/00 Presses characterised by a particular arrangement of the pressing members</p> <p>7/02 . having several platens arranged one above the other</p> <p>7/04 . wherein pressing is effected in different directions simultaneously or in turn</p> <p>9/00 Presses specially adapted for particular purposes</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)</p> <p>9/04 . . using press rams</p> <p>9/06 . . . co-operating with permeable casings or strainers</p> <p>9/08 . . . co-operating with a rotary casing</p> <p>9/10 . . . without use of a casing</p> <p>9/12 . . using pressing worms or screws co-operating with a permeable casing</p> <p>9/14 . . . operating with only one screw or worm</p> <p>9/16 . . . operating with two or more screws or worms</p> <p>9/18 . . . with means for adjusting the outlet for the solid</p> <p>9/20 . . using rotary pressing members, other than worms or screws, e.g. rollers, rings, discs</p> <p>9/22 . . using a flexible element, e.g. diaphragm, urged by fluid pressure (connection of valves to inflatable elastic bodies B60C 29/00) [3]</p> <p>9/24 . . using an endless pressing band</p> <p>9/26 . . Permeable casings or strainers</p> <p>9/28 . for forming shaped articles (from material in powder, granular, or paste form, e.g. briquetting presses, B30B 11/00)</p> <p>9/30 . for baling; Compression boxes therefor (baling hay, straw, or the like A01F)</p> <p>9/32 . for consolidating scrap metal or for compacting used cars</p> <p>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)</p> <p>11/02 . using a ram exerting pressure on the material in a moulding space</p> <p>11/04 . . co-operating with a fixed mould</p> <p>11/06 . . . each charge of the material being compressed against the previously formed body</p> |
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B30B

- 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