

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

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

B30B

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| 11/08 | . . co-operating with moulds carried by a turn-table | 15/00 | Details of, or accessories for, presses; Auxiliary measures in connection with pressing (safety devices F16P) |
| 11/10 | . . . intermittently rotated | 15/02 | . Dies; Inserts therefor; Mountings thereof; Moulds (extrusion dies B30B 11/22) |
| 11/12 | . . co-operating with moulds on the circumference of a rotating drum | 15/04 | . Frames; Guides |
| 11/14 | . . co-operating with moulds on a movable carrier other than a turn-table or a rotating drum | 15/06 | . Platens or press rams |
| 11/16 | . using pocketed rollers, e.g. two co-operating pocketed rollers | 15/08 | . Accessory tools, e.g. knives; Mountings therefor |
| 11/18 | . using profiled rollers | 15/10 | . Brakes specially adapted for presses |
| 11/20 | . Roller-and-ring machines, i.e. with roller disposed within a ring and co-operating with the inner surface of the ring | 15/12 | . Clutches specially adapted for presses |
| 11/22 | . Extrusion presses; Dies therefor (extruding by the use of roller-and-ring machines B30B 11/20) | 15/14 | . Control arrangements for mechanically-driven presses |
| 11/24 | . . using screws or worms | 15/16 | . Control arrangements for fluid-driven presses (pumps <u>per se</u> F04; hydraulic accumulators <u>per se</u> F15B; valves <u>per se</u> F16K) |
| 11/26 | . . using press rams | 15/18 | . . controlling the reciprocating motion of the ram |
| 11/28 | . . using perforated rollers or discs | 15/20 | . . . controlling the speed of the ram, e.g. the speed of the approach, pressing or return strokes |
| 11/30 | . . using directly-acting fluid pressure | 15/22 | . . controlling the degree of pressure applied by the ram during the pressing stroke |
| 11/34 | . for coating articles, e.g. tablets | 15/24 | . . controlling the movement of a plurality of actuating members to maintain parallel movement of the platen or press beam |
| 12/00 | Presses not provided for in groups B30B 1/00 to B30B 11/00 [2] | 15/26 | . Programme control arrangements |
| 13/00 | Methods of pressing not special to the use of presses of any one of the preceding main groups B30B 1/00 to B30B 12/00 [2] | 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 |