

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

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

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