

## 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	OTHER PRESSES.....	12/00
PRESSES FOR SPECIAL PURPOSES .....	9/00, 11/00	DETAILS, ACCESSORIES, CONTROL .....	15/00
		OTHER PRESSING METHODS .....	13/00

<b>1/00</b>	<b>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</b>	<b>7/00</b>	<b>Presses characterised by a particular arrangement of the pressing members</b>
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	<b>9/00</b>	<b>Presses specially adapted for particular purposes</b>
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	<b>11/00</b>	<b>Presses specially adapted for forming shaped articles from material in particulate or plastic state, e.g. briquetting presses, tableting presses</b> (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
<b>3/00</b>	<b>Presses characterised by the use of rotary pressing members, e.g. rollers, rings, discs</b>	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		
<b>5/00</b>	<b>Presses characterised by the use of pressing means other than those mentioned in groups B30B 1/00 and B30B 3/00</b>		
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
- 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 to 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 to 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