SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B30 PRESSES

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	

	S, ACCESSORIES, CONTROL PRESSING METHODS		
1/00	Presses, using a press ram, characterised by the features of the drive therefor, pressure being transmitted directly, or through simple thrust or	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	tension members only, to the press ram or platenby 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 1/06	operated by hand or footoperated by cams, eccentrics, or cranks	5/04	 wherein the pressing means is in the form of an endless band
1/08	operated by fluid-pressure means by toggle mechanism.	5/06	• co-operating with another endless band
1/10 1/12 1/14	 by toggle mechanism operated by hand or foot operated by cams, eccentrics, or cranks	7/00	Presses characterised by a particular arrangement of the pressing members
1/16 1/18	 operated by calls, eccentrics, or cranks operated by fluid-pressure means by screw means 	7/02 7/04	 having several platens arranged one above the other wherein pressing is effected in different directions simultaneously or in turn
1/20 1/22	 driven by hand driven through friction disc means	9/00	Presses specially adapted for particular purposes
1/22 1/23 1/24 1/26 1/28	 operated by fluid-pressure means [2] by rack-and-pinion means by cams, eccentrics, or cranks the cam, crank, or eccentric being disposed below the lower platen or table and operating to pull down the upper platen or slide by the pull of chains or ropes 	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)
1/32 1/34	by plungers under fluid pressureinvolving a plurality of plungers acting on the	9/04 9/06	using press ramsco-operating with permeable casings or strainers
1/36	 platen (gas operated B30B 1/38) having telescoping plungers (gas operated B30B 1/38) 	9/08 9/10	co-operating with a rotary casingwithout use of a casing
1/38	wherein the plungers are operated by pressure of a gas, e.g. steam, air	9/12	 using pressing worms or screws co-operating with a permeable casing
1/40	• by wedge means	9/14	 operating with only one screw or worm
1/42	• by magnetic means, e.g. electromagnetic [2]	9/16 9/18	operating with two or more screws or wormswith means for adjusting the outlet for the solid
3/00	Presses characterised by the use of rotary pressing members, e.g. rollers, rings, discs	9/20	• • using rotary pressing members, other than worms or screws, e.g. rollers, rings, discs
3/02 3/04	 co-operating with a fixed member co-operating with one another, e.g. with co-operating cones 	9/22	• • using a flexible element, e.g. diaphragm, urged by fluid pressure (connection of valves to inflatable elastic bodies B60C 29/00) [3]
3/06	arranged one within another, e.g. with a roller disposed within a rotating ring and co-operating with the inner surface thereof	9/24 9/26	 using an endless pressing band Permeable casings or strainers

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with the inner surface thereof

using screws or wormsusing press rams

using perforated rollers or discs

11/24

11/26

11/28

9/28	for forming shaped articles (from material in powder,	11/30	using directly-acting fluid pressure
	granular, or paste form, e.g. briquetting presses, B30B 11/00)	11/34	• for coating articles, e.g. tablets
9/30	 for baling; Compression boxes therefor (baling hay, straw, or the like A01F) 	12/00	Presses not provided for in groups B30B 1/00-B30B 11/00 [2]
9/32	 for consolidating scrap metal or for compacting used cars 	13/00	Methods of pressing not special to the use of presses of any one of the preceding main groups B30B 1/00-
11/00	Presses specially adapted for forming shaped articles		B30B 12/00 [2]
	from material in particulate or plastic state, e.g. briquetting presses, tabletting presses (apparatus for forming or shaping of dough A21C 3/00, A21C 11/00; apparatus for shaping clay or mixtures containing	15/00	Details of, or accessories for, presses; Auxiliary measures in connection with pressing (safety devices F16P)
	cement B28B; apparatus for shaping of plastic or substances in a plastic state B29, e.g. for compression	15/02	• Dies; Inserts therefor; Mountings thereof; Moulds (extrusion dies B30B 11/22)
	moulding B29C 43/00, for extrusion moulding	15/04	Frames; Guides
	B29C 47/00)	15/06	 Platens or press rams
11/02	 using a ram exerting pressure on the material in a 	15/08	 Accessory tools, e.g. knives; Mountings therefor
	moulding space	15/10	 Brakes specially adapted for presses
11/04	 co-operating with a fixed mould 	15/12	 Clutches specially adapted for presses
11/06	• • each charge of the material being compressed against the previously formed body	15/14	Control arrangements for mechanically-driven presses
11/08	 co-operating with moulds carried by a turn-table 	15/16	Control arrangements for fluid-driven presses (pumps
11/10 11/12	• intermittently rotated• co-operating with moulds on the circumference of		<u>per se</u> F04; hydraulic accumulators <u>per se</u> F15B; valves <u>per se</u> F16K)
	a rotating drum	15/18	 controlling the reciprocating motion of the ram
11/14	 co-operating with moulds on a movable carrier other than a turn-table or a rotating drum 	15/20	• • controlling the speed of the ram, e.g. the speed of the approach, pressing or return strokes
11/16	 using pocketed rollers, e.g. two co-operating pocketed rollers 	15/22	• • controlling the degree of pressure applied by the ram during the pressing stroke
11/18	 using profiled rollers 	15/24	 controlling the movement of a plurality of
11/20	• Roller-and-ring machines, i.e. with roller disposed within a ring and co-operating with the inner surface		actuating members to maintain parallel movement of the platen or press beam
	of the ring	15/26	 Programme control arrangements
11/22	 Extrusion presses; Dies therefor (extruding by the use of roller-and-ring machines B30B 11/20) 	15/28	 Arrangements for preventing distortion of, or damage to, presses or parts thereof

15/30

15/32

15/34

Feeding material to presses

• Heating or cooling presses or parts thereof

• Discharging presses