58	Presses
58a	Hydraulic presses
58a	(IPC: B30B) Presses in general
58b	Mechanical presses
58a	Hydraulic presses
58a-1	Hydraulic presses in general (7c-16; 49g-10/01 – 49g-10/02; 49g-11; 58a-5 – 58a-8; 80a-15)
58a-2	Pumps and hydraulic pressure transmitters for hydraulic presses
58a-3	Control mechanisms and valves for hydraulic presses (47g-9/01 – 47g-9/04; 47g-10/01; 47g-10/02; 47g-13)
58a-4	Hydraulic power accumulators, pressure liquid accumulators
58a-5	Hydraulic piston presses for fruit and the like
58a-6	Hydraulic moulding presses (80a-15)
58a-7	Hydraulic oil presses (58b-11)
58a-8	Miscellaneous device for hydraulic presses
58a	(IPC: B30B) Presses in general
	Note: This subclass provides for presses in general and also for those presses, for particular purposes, which are not provided for elsewhere.
58a-1/02 58a-1/04 58a-1/06 58a-1/08 58a-1/10 58a-1/12 58a-1/14 58a-1/16 58a-1/18 58a-1/20 58a-1/22 58a-1/23 58a-1/24 58a-1/26 58a-1/28	tension members only, to the press ram or platen  by lever mechanism (by toggle mechanism 58a-1/10)  operated by hand or foot  operated by cams, eccentrics, or cranks  operated by fluid-pressure means  by toggle mechanism  operated by hand or foot  operated by cams, eccentrics, or cranks  operated by fluid-pressure means  by screw means  driven by hand  driven through friction disc means  operated by fluid pressure means  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
58a-1/30 58a-1/32 58a-1/34	<ul> <li>by the pull of chains or ropes</li> <li>by plungers under fluid pressure</li> <li>involving a plurality of plungers acting on the platen (gas operated 58a-1/38)</li> </ul>
58a-1/36 58a-1/38 58a-1/40	<ul> <li>. having telescoping plungers (gas operated 58a-1/38)</li> <li>. wherein the plungers are operated by pressure of a gas, e.g. steam, air</li> <li>. by wedge means</li> </ul>
58a-1/42 58a-1/44	<ul> <li>by magnetic means, e.g. electromagnetic (shaping of sheet metal or the like by applying magnetic forces 7c-26/14)</li> <li>in which the tools move with the material to be pressed</li> </ul>
58a-3/00	
58a-3/02	Presses characterised by the use of rotary pressing members, e.g. rollers, rings, discs . co-operating with a fixed member
JUA-J/UZ	. co-operating with a fixed member

58a-3/04 58a-3/06	<ul> <li>co-operating with one another, e.g. with co-operating cones</li> <li>arranged one within another, e.g. with a roller disposed within a rotating ring and co-operating with the inner surface thereof</li> </ul>
58a-5/00	Presses characterised by the use of pressing means other than those
58a-5/02	mentioned in the preceding groups . wherein the pressing means is in the form of a flexible diaphragm, urged by fluid
58a-5/04	pressure . wherein the pressing means is in the form of an endless band
58a-5/06	co-operating with another endless band
58a-7/00	Presses characterised by a particular arrangement of the pressing members
58a-7/02	. having several platens arranged one above the other
58a-7/04	. wherein pressing is effected in different directions simultaneously or in turn
58a-7/06 58a-7/08	<ul> <li>with several pressing members or with pressing members that can be subdivided</li> <li>with revolving or similar multi-purpose tool holders (movable or exchangeable mountings for tools 7c-37/04)</li> </ul>
58a-9/00	Presses specially adapted for particular purposes
58a-9/02	. for squeezing-out liquid from liquid-containing material, e.g. juice from fruits, oil from oil-containing material (household machines 34b-19; expelling water from textile fabrics or laundry 8a-33; drying 82a)
58a-9/04	using press rams
58a-9/06 58a-9/08	<ul><li> co-operating with permeable casings or strainers</li><li> co-operating with a rotary casing</li></ul>
58a-9/10	without use of a casing
58a-9/12	using pressing worms or screws co-operating with a permeable casing
58a-9/14	operating with only one screw or worm
58a-9/16	operating with two or more screws or worms
58a-9/18	with means for adjusting the outlet for the solid
58a-9/20	using rotary pressing members, other than worms or screws, e.g. rollers, rings, discs
58a-9/22	using a flexible diaphragm urged by fluid pressure
58a-9/23	with inflatable elastic pressing members
58a-9/24	using an endless pressing band Permeable casings or strainers
58a-9/26 58a-9/28	Fermeable casings of strainers for forming shaped articles (from material in powder, granular, or paste form, e.g.
58a-9/30	briquetting presses 58a-11/00)  for baling; Compression boxes therefor (baling hay, straw, or the like 45e)
58a-9/32	. for consolidating scrap metal or for compacting used cars
58a-9/34	. Presses for punching, drawing and pressing of metal, as regards driving of the
	pressing members and the general construction (bending, straightening, punching, deep-drawing and stretching of sheet metal, tubing and rods, and tools therefor 7c, nibbling machines 49c-27/00)
58a-11/00	Presses specially adapted for forming shaped articles from material in
	powder, granular or paste form, e.g. briquetting presses, tabletting
	presses (for clay or mixtures containing cement 80a; for plastics 39a2-3/00)
58a-11/02	. using a ram exerting pressure on the material in a moulding space
58a-11/04	co-operating with a fixed mould
58a-11/06	each charge of the material being compressed against the previously formed body
58a-11/08	co-operating with moulds carried by a turn-table
58a-11/10 58a-11/12	<ul><li> intermittently rotated</li><li> co-operating with moulds on the circumference of a rotating drum</li></ul>
58a-11/12 58a-11/14	<ul> <li>co-operating with moulds on the circumference of a rotating drum</li> <li>co-operating with moulds on a movable carrier other than a turn-table or a rotating</li> </ul>
300 11/14	drum
58a-11/16	. using pocketed rollers, e.g. two co-operating pocketed rollers
58a-11/18	. using profiled rollers
58a-11/20	. Roller-and-ring machines, i.e. with roller disposed within a ring and co-operating
	with the inner surface of the ring

58a-11/22	. Extrusion presses; Dies therefor (extruding by the use of roller-and-ring machines 58a-11/20)
58a-11/24	using screws or worms
58a-11/26	using press rams
58a-11/28	using perforated rollers or discs
58a-11/30	using directly-acting fluid pressure
58a-11/32	. involving the use of very high pressures, e.g. for the formation of artificial diamonds; Moulds or dies therefor
58a-11/34	. for coating articles, e.g. tablets
58a-13/00	Methods of pressing not special to the use of presses of any one of the preceding groups
58a-15/00	Details of, or accessories for, presses; Auxiliary measures in connection with pressing (safety devices 47a4)
58a-15/02	. Dies; Inserts therefor; Mountings thereof; Moulds (extrusion dies 58a-11/22)
58a-15/04	. Frames; Guides
58a-15/06	Platens or press rams
58a-15/08 58a-15/10	. Accessory tools, e.g. knives; Mountings therefor . Brakes specially adapted for presses (brakes in general 47c)
58a-15/12	. Clutches specially adapted for presses (clutches in general 47c)
58a-15/13	. Gearings specially adapted for presses (gearings in general 47h)
58a-15/14	. Control arrangements for mechanically-driven presses
58a-15/16	. Control arrangements for fluid-driven presses (hydraulic accumulators per se 60a;
	valves per se 47g1; control devices in general 42r)
58a-15/18	controlling the reciprocating motion of the ram
58a-15/20	controlling the speed of the ram, e.g. the speed of the approach, pressing or return strokes
58a-15/22	controlling the degree of pressure applied by the ram during the pressing stroke
58a-15/24	controlling the movement of a plurality of actuating members to maintain parallel
	movement of the platen or press beam
58a-15/26	. Programme control arrangements
58a-15/28	. Arrangements for preventing distortion of, or damage to, presses or parts
58a-15/30	thereof . Feeding material to presses
58a-15/32	. Discharging presses
58a-15/34	. Heating or cooling presses or parts thereof
58b	Mechanical presses
58b-1	Lever presses in general (80a-10; 80a-11)
58b-2	Screw presses in general
58b-3	Ratchet mechanisms for screw presses
58b-4	Rack-and-pinion presses
58b-5	Roll presses (8b-19; 8h-3; 45e-28; 45e-15/00; 55d-19; 55d-20/01 – 55d-20/50; 80a-25/50; 89c-8)
58b-6	Presses with endless belts (45e-28; 45e-15/00; 89b-6)
58b-7	Eccentric presses in general (7c-13, 7c-18; 49c-17/01 – 49c-17/12; 49c-18/01; 80a-12)
58b-8	Wedge-operated presses
305 0	Trougo opoliatou processo
58b-9	Screw presses for moist materials in general (10c-7: 45e-28: 45e-15/00: 80a-26:
58b-9	Screw presses for moist materials in general (10c-7; 45e-28; 45e-15/00; 80a-26; 89b-5)
58b-10	89b-5) Piston presses for fruits and the like (34b-9/01 – 34b-9/10; 45e-23/01 – 45e-23/07; 45e-15/00; 58a-5)
58b-10 58b-11	89b-5) Piston presses for fruits and the like (34b-9/01 – 34b-9/10; 45e-23/01 – 45e-23/07; 45e-15/00; 58a-5) Mechanically operated oil presses (23a-1; 58a-7)
58b-10	89b-5) Piston presses for fruits and the like (34b-9/01 – 34b-9/10; 45e-23/01 – 45e-23/07; 45e-15/00; 58a-5)

58b-14	Baling presses in general (hay and straw presses and automatic binding devices 45e-23/01 – 45e-23/07; 45e-24 – 45e-28; 45e-15/04 – 45e-15/06)
58b-15	Presses with counteracting springs
58b-16	Safety and protective devices for presses (see various classes for special machinery; additional casings, prevention of fracture in general 47a-18)
58b-17	Miscellaneous devices for mechanically operated presses