

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

PERSONAL OR DOMESTIC ARTICLES

A43 FOOTWEAR

A43D MACHINES, TOOLS, EQUIPMENT OR METHODS FOR MANUFACTURING OR REPAIRING FOOTWEAR

NOTE

In this subclass, a method of manufacturing footwear which is dependent on a distinct machine or tool, is classified in the group covering the machine or tool for the manufacture.

Measuring devices; Lasts; Tools

1/00 Foot or last measuring devices; Measuring devices for shoe parts

- 1/02 . Foot-measuring devices (measuring the shape, pattern or size of the body for diagnostic purposes [A61B 5/103](#), e.g. measuring physical dimensions [A61B 5/107](#))
- 1/022 . . {involving making footprints or permanent moulds of the foot}
- 1/025 . . {comprising optical means, e.g. mirrors, photo-electric cells, for measuring or inspecting feet}
- 1/027 . . {Shoe fit indicating devices}
- 1/04 . Last-measuring devices
- 1/06 . Measuring devices for the inside measure of shoes, for the height of heels, or for the arrangement of heels
- 1/08 . Measuring devices for shoe parts

3/00 Lasts

- 3/02 . Lasts for making or repairing shoes (making of wooden lasts [B27M 3/20](#))
- 3/021 . . {for orthopaedic footwear}
- 3/022 . . {comprising means, e.g. hooks, for holding, fixing or centering shoe parts on the last}
- 3/023 . . {Hinge constructions for articulated lasts}
- 3/024 . . {Lasts with a fore part and heel section relatively slideable to one another along an inclined line of cut}
- 3/025 . . {Longitudinally expansible lasts}
- 3/026 . . {Lasts for making rubber footwear or for vulcanizing rubber soles to footwear}
- 3/027 . . {Lasts with exchangeable parts, e.g. for changing the form or for remodelling}
- 3/028 . . {Tack retaining means for lasts}
- 3/029 . . {Constructional features of the heel section}
- 3/04 . Pneumatic lasts; Elastic lasts
- 3/06 . Wedge locks for lasts
- 3/08 . Devices for stretching special parts of shoes
- 3/10 . Devices for removing lasts
- 3/12 . Devices for inserting or reinserting lasts
- 3/14 . Stretching or spreading lasts; Boot-trees; Fillers; Devices for maintaining the shape of the shoe (drying of footwear [A47L 23/20](#))
- 3/1408 . . {Devices for heating or drying shoes}
- 3/1416 . . {Boot-trees}

- 3/1425 . . {Devices for sole stretching}
- 3/1433 . . {Shoe-trees}
- 3/1441 . . . {spreading the width of a shoe, i.e. laterally expandable}
- 3/145 {adjustable}
- 3/1458 {by a screw}
- 3/1466 . . . {stretching the length of a shoe, i.e. longitudinally expandable}
- 3/1475 {adjustable}
- 3/1483 {by a screw}
- 3/1491 . . . {with means for sweaty feet, e.g. with disinfecting or deodorant means (cleaning of a footwear [A47L 23/20](#))}

5/00 Hand appliances or hand tools for making or repairing shoes, other than those covered by groups [A43D 15/00](#), [A43D 19/00](#), [A43D 95/00](#), [A43D 100/00](#), [A43D 117/00](#)

- 5/005 . {for heel removing}
- 5/02 . Stands for making footwear (stands for cleaning shoes [A47L 23/16](#))
- 5/04 . Knives (knives in general [B26B](#))
- 5/06 . Tools for cutting off the ends of nails or pegs in shoes
- 5/08 . Awls (making [B21G](#))
- 5/10 . Shoe-peg rasps (wood rasps [B27G 17/06](#))
- 5/12 . Hand nailing apparatus for shoemaking ([A43D 19/02](#) takes precedence; nailing apparatus in general [B25C](#), [B27F](#))
- 5/14 . . Hand pincers for stapling

8/00 Machines for cutting, ornamenting, marking or otherwise working up shoe part blanks (pulling-over or lasting [A43D 9/00](#) - [A43D 23/00](#); making or fastening soles, heels or welts [A43D 25/00](#) - [A43D 83/00](#))

- 8/003 . {specially adapted for forming upper blanks or leggings by stretching}
- 8/006 . {for forming shoe stiffeners}
- 8/02 . Cutting-out (cutting in general [B26D](#), [B26F](#); of leather articles in general [C14B 5/00](#))
- 8/04 . . Stamping-out ([A43D 8/10](#) takes precedence)
- 8/06 . . . Dies therefor
- 8/08 . . . Combined stamping-out and bonding, e.g. high frequency electric current being applied between cutting edge and work support

8/10	. . Cutting-out using pattern grading (for trimming A43D 8/38 ; pattern grading in making clothes A41H 3/00 ; pattern copying in general B23Q 33/00 , B23Q 35/00)	11/085	. . { Lacing machines }
8/12	. . . Patterns or templates therefor	11/10	. Devices for holding the lacing portions in position during lasting
8/14 Applying bindings to pattern edges	11/12	. Machines for forming the toe part or heel part of shoes, with or without use of heat
8/16	. Ornamentation (by creasing A43D 8/44 ; of leather in general C14B 1/56)	11/14	. Devices for treating shoe parts, e.g. stiffeners, with steam or liquid (for soled shoes A43D 95/12)
8/18	. . by punching or perforating (punching for eyelet-setting A43D 100/02)	11/145	. . {with means, e.g. transport chains , for continuously transferring the shoe parts through the machines }
8/20	. . . Dies therefor	13/00	Machines for pulling-over the uppers when loosely laid upon the last and tacking the toe end
8/22	. . by embossing or printing (printing per se , stamping per se B41)	13/02	. Devices for locating caps or stiffeners on pulling-over machines
8/24	. . . Embossing using heat, e.g. high frequency electric current	15/00	Pulling-over or lasting machines for binding the toe end with cord, string, or wire; Machines for lasting with clamps; Lasting machines with sewing devices, also for platform shoes (special sewing machines for leather or shoes D05B)
8/26	. Marking for future work (A43D 8/16 takes precedence ; printing per se , stamping per se B41)	17/00	Pulling-over or lasting machines with oscillating shoe supports
8/265	. . { Marking buttonhole locations }	19/00	Hand lasting; Lasting pincers
8/28	. . Patterns for drawing cut-outs (in making clothes A41H 3/00)	19/02	. Tacking or nailing devices for use with lasting pincers
8/30	. . Charting sheet material for subsequent cutting	21/00	Lasting machines
8/32	. Working on edges or margins (of leather in general C14B 1/02 , C14B 11/00)	21/003	. {with lasting strings , stretching straps or the like , for forming the shank portions of shoes }
8/34	. . by skiving (A43D 8/48 takes precedence)	21/006	. {with rotating lasting means }
8/36	. . by trimming the margins of sole blanks (trimming as an intermediate operation in shoemaking A43D 27/00 , as a finishing operation in shoemaking A43D 87/00)	21/02	. with one single lasting gripper
8/38	. . . by cutting-out, e.g. using templates	21/04	. for lasting the opposite sides of the shoe one after another
8/40	. . by folding, turning in or over, hammering	21/06	. for wooden soles (A43D 21/16 , A43D 21/18 take precedence)
8/42	. . by singeing, contracting, dyeing	21/08	. with last supports and toe- or heel-embracing wipers movable both horizontally and vertically (A43D 21/16 takes precedence)
8/44	. Creasing presses (folding on margins A43D 8/40)	21/10	. Bed-lasting machines
8/46	. Splitting (of leather in general C14B 1/02)	21/12	. with lasting clamps, shoe-shaped clamps, { pincers ,} wipers, stretching straps or the like for forming the toe or heel parts of the last {(A43D 21/16 , A43D 21/18 take precedence)}
8/48	. . combined with skiving	21/122	. . {with pincers and clamps }
8/50	. . Combined splitting and trimming of the heel-seat portions of sole blanks (of soles fixed to shoe bottoms A43D 27/04)	21/125	. . {with a plurality of pincers (A43D 21/122 takes precedence) }
8/52	. Flexing (of leather in general C14B)	21/127	. . {with wipers (A43D 21/16, A43D 21/18 take precedence) }
8/54	. . by milling	21/14	. for toe or heel parts, with nailing devices
8/56	. . of sole blanks by slitting	21/16	. with lasting pincers {and} toe- or heel-embracing wipers
	Pulling-over or lasting	21/163	. . {with heel-embracing wipers }
9/00	Devices for binding the uppers upon the lasts (for the toe ends A43D 15/00)	21/166	. . {with toe-embracing wipers }
11/00	Machines for preliminary treatment or assembling of upper-parts, counters, or insoles on their lasts preparatory to the pulling-over or lasting operations; Applying or removing protective coverings	21/18	. with lasting pincers and straight-acting wipers, also for forming the shank portions of shoes
11/003	. { Applying or removing protective coverings }	23/00	Single parts for pulling-over or lasting machines (nailing devices A43D 75/00)
11/006	. { Devices for temporarily fixing or aligning insoles on lasts }	23/02	. Wipers; Sole-pressers; Last-supports; Pincers
11/01	. Machines for applying reinforcement or ornamental straps to the margins of uppers (to soles or insoles A43D 43/06)	23/022	. . { Sole-pressers }
11/02	. . to the margins thereof	23/025	. . { Last-supports }
11/03	. . Coating with thermoplastic materials to stiffen the toe or heel portion	23/027	. . { Pincers }
11/04	. Machines for seam-pressing or flattening shoe parts, quarters, or the like (on lasted shoes A43D 55/00)	23/04	. Last-carriers; Shoe-guides
11/06	. Machines for temporary buttoning of shoe parts		
11/08	. Machines for temporary lacing of shoe parts or for cutting-away the lacing strips after lasting		

<p>23/06 . Devices for cutting-off superfluous material on the uppers or linings</p> <p><u>Making or fastening soles, heels or welts, or preparing same for fastening to the shoe; Carrying out other operations subsequent to lasting; Turning</u> (sewing D05B)</p> <p>25/00 Devices for gluing shoe parts</p> <p>25/047 . Devices for lasting with adhesives or for gluing together insoles and uppers (A43D 25/18, A43D 25/20 take precedence)</p> <p>25/053 . . with rotating gripping means</p> <p>25/06 . Devices for gluing soles on shoe bottoms (A43D 25/18, A43D 25/20 take precedence)</p> <p>25/063 . . {Multiple pressing devices in a closed circuit, e.g. rotating multiple pressing devices}</p> <p>25/066 . . {Heel clamps or heel presses for glueing heels to shoe bottoms}</p> <p>25/07 . . using flexible diaphragm pressing devices</p> <p>25/08 . . Welt hold-down devices</p> <p>25/10 . . Press-pads or other supports of shoe-gluing presses</p> <p>25/12 . Devices for gluing heel-breasts to heels or for gluing coverings on heels (A43D 25/18, A43D 25/20 take precedence)</p> <p>25/123 . . {Devices for glueing heel-breasts to heels}</p> <p>25/126 . . {Devices for glueing coverings on heels}</p> <p>25/14 . Devices for filling the shoe bottom</p> <p>25/16 . Devices for making glued platform shoes</p> <p>25/18 . Devices for applying adhesives to shoe parts (A43D 25/20 takes precedence; applying liquids or other fluent materials to surfaces in general B05)</p> <p>25/181 . . {by rollers}</p> <p>25/183 . . {by nozzles}</p> <p>25/185 . . {by imprinter plates}</p> <p>25/186 . . {by dipping}</p> <p>25/188 . . {by grids}</p> <p>25/20 . Arrangements for activating or for accelerating setting of adhesives, e.g. by using heat</p> <p>27/00 Machines for trimming as an intermediate operation (working on edges or margins, e.g. by trimming, of shoe part blanks A43D 8/32; trimming as a finishing operation in shoemaking A43D 87/00)</p> <p>27/02 . Soles or heels fixed on shoe bottoms (stamps or dies for soles or heel-lifts C14B)</p> <p>27/04 . . Heel-end portions of soles fixed on shoe bottoms (on loose soles A43D 8/46)</p> <p>27/06 . . Heel breast flaps</p> <p>29/00 Machines for making soles from strips of material</p> <p>31/00 Machines for making or inserting shank stiffeners</p> <p>31/02 . Machines for making shank stiffeners</p> <p>31/04 . Machines for inserting shank stiffeners</p> <p>33/00 Machines for assembling lifts for heels (cutting-out heel lifts A43D 8/02)</p> <p>33/02 . Gauges for heel lifts; Magazines for piling up heel lifts</p> <p>33/04 . Nailing machines for building the heels from lifts</p> <p>33/06 . Machines for sorting heel lifts</p> <p>35/00 Presses for shaping pre-existing loose soles, shoe bottoms or soles fixed to shoe bottoms (glueing soles on shoe bottoms A43D 25/06)</p>	<p>37/00 Machines for roughening soles or other shoe parts preparatory to gluing</p> <p>37/005 . {characterised by constructional details of the rotative tools used therewith}</p> <p>39/00 Machines for making foot-supporting pads or instep-raisers for flat feet</p> <p>43/00 Machines for making stitch lips, or other preparatory treatment of soles or insoles before fixing same (flexing of soles or insoles A43D 8/52)</p> <p>43/02 . for making stitch lips by cutting</p> <p>43/06 . for applying reinforcing materials to insoles; Attachment of ornamental tapes or ribs, e.g. sewing ribs, on soles, or the like</p> <p>44/00 Machines for attaching welts or rands</p> <p>47/00 Machines for trimming or butting welts fixed on uppers</p> <p>49/00 Machines for pounding</p> <p>51/00 Machines for lip-setting</p> <p>53/00 Machines for trimming-off surplus material along the in seam</p> <p>55/00 Machines for flattening, pressing, or rubbing the in seams of lasted shoes</p> <p>57/00 Machines for attaching the welt ends</p> <p>59/00 Machines for rasping the lasting-margins of shoes which are sewn through</p> <p>61/00 Machines for nail-pulling, nail-cutting, or nail-detecting</p> <p>63/00 Machines for carrying-out other finishing operations</p> <p>67/00 Machines for fastening soles or heels by means of screws or screwed wire</p> <p>69/00 Shoe-nailing machines (nailing machines in general B27F)</p> <p>69/005 . {using nails being made from alternative materials, e.g. leather}</p> <p>69/02 . using ready-made nails</p> <p>69/04 . with apparatus for separating the nails from a wire or from a strip of metal or other material</p> <p>69/06 . using ready-made staples</p> <p>69/08 . with apparatus for making staples</p> <p>69/10 . using ready-made wooden pegs</p> <p>69/12 . with apparatus for separating the pegs from a strip of wood</p> <p>69/14 . for nailing or stapling the lasted margin onto shoes with wooden soles</p> <p>71/00 Elements of nailing machines; Nail-feeding devices</p> <p>71/02 . Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn</p> <p>75/00 Nailing devices on pulling-over or lasting machines</p> <p>79/00 Combined heel-pressing and nailing machines</p> <p>81/00 Machines for attaching top-lifts</p>
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83/00	Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing	100/06 100/08	<ul style="list-style-type: none"> . . inserting two eyelets simultaneously . Setting buttons on footwear (for garments A41H 37/00)
85/00	Machines or apparatus for turning, e.g. for making turn-shoes	100/10 100/12 100/14	<ul style="list-style-type: none"> . Machines or tools for setting lacing-hooks in shoes . Machines for inserting elastic gussets in shoes . Devices for removing buttons, lacing-hooks, or the like from shoes
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86/00	Machines for assembling soles or heels onto uppers, not provided for in groups A43D 25/00 - A43D 83/00, e.g. by welding		
<u>Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances</u>			
87/00	Edge or heel cutters; Machines for trimming the heel breast (trimming machines for wooden heels B27M; copying machines B44B)		
89/00	Sole-levelling machines with rolls		
91/00	Stitch-separating or seam-indenting machines		
93/00	Edge-indenting machines		
95/00	Shoe-finishing machines		
95/02	. Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like		
95/04	. Machines for laying channel-flaps		
95/06	. Machines for colouring or chemical treatment; Ornamenting the sole bottoms (burnishing A43D 95/20)		
95/08	. Machines or tools for scouring, abrading, or finishing, with or without dust-separating (suction cleaners for removing dust A47L 5/00 ; domestic cleaning of footwear A47L 23/00)		
95/10	. Drying or heating devices for shoes		
95/12	. Devices for conditioning, tempering, or moistening (preparatory to pulling-over or lasting A43D 11/14)		
95/125	. . {with means, e.g. transport chains, for continuously transferring shoes through the devices}		
95/14	. incorporating marking, printing, or embossing apparatus (ornamentation of shoe part blanks A43D 8/16 ; printing <i>per se</i> , stamping <i>per se</i> B41)		
95/16	. Burnishing tools for shoemaking (in general B24D)		
95/18	. . Devices for heating the burnishing tools for shoemaking		
95/20	. Machines for burnishing soles or heels		
95/22	. Machines for burnishing the edges of soles, with or without devices for edge-indenting		
95/24	. Machines for buffing soles		
95/26	. Devices for applying wax		
95/28	. Machines for attaching protectors to soles or heels		
97/00	Machines for making pulling-on pieces		
98/00	Machines for making laces (of leather C14B; braidings in general D04C); Applying fibre or celluloid to ends of laces (making tags from metal sheet B21D; from wire B21F)		
100/00	Setting or removing eyelets, buttons, lacing-hooks, or elastic gussets in shoes		
100/02	. Punching and eyelet-setting machines or tools (for garments in general A41H 37/02)		
100/04	. . inserting invisible eyelets		
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	<u>Miscellaneous mechanisms for shoemaking</u>		
111/00	Shoe machines with conveyors for jacked shoes (or for shoes or shoe parts)		
111/003	. {with clamping or gripping mechanism}		
111/006	. {with special means to place the shoe or shoe part in the following machine}		
113/00	Machines for making shoes with out-turned flanges of the uppers or for making moccasins		
115/00	Machines for skiving or removing heel-lifts, heels, or soles, or for removing stitches, preparatory to repair		
117/00	Racks for receiving or transporting shoes or shoe parts; Other conveying means		
119/00	Driving or controlling mechanisms of shoe machines; Frames for shoe machines		
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2200/00	Machines or methods characterised by special features		
2200/10	. Fully automated machines, i.e. machines working without human intervention		
2200/20	. Machines including a carousel with different working posts around a turning table		
2200/30	. Machines including a magazine, e.g. for feeding blanks, pre-forms or sheets		
2200/40	. Multitool machines, e.g. machines with a plurality of tools or working heads		
2200/50	. Machines using pneumatic means		
2200/60	. Computer aided manufacture of footwear, e.g. CAD or CAM		
999/00	Subject matter not provided for in other groups of this subclass		