

# 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.

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

##### 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}	11/01	. Machines for applying reinforcement or ornamental straps to the margins of uppers (to soles or insoles <a href="#">A43D 43/06</a> )
8/006	. {for forming shoe stiffeners}	11/02	. . to the margins thereof
8/02	. Cutting-out (cutting in general <a href="#">B26D</a> , <a href="#">B26F</a> ; of leather articles in general <a href="#">C14B 5/00</a> )	11/03	. . Coating with thermoplastic materials to stiffen the toe or heel portion
8/04	. . Stamping-out ( <a href="#">A43D 8/10</a> takes precedence)	11/04	. Machines for seam-pressing or flattening shoe parts, quarters, or the like (on lasted shoes <a href="#">A43D 55/00</a> )
8/06	. . . Dies therefor	11/06	. Machines for temporary buttoning of shoe parts
8/08	. . . Combined stamping-out and bonding, e.g. high frequency electric current being applied between cutting edge and work support	11/08	. Machines for temporary lacing of shoe parts or for cutting-away the lacing strips after lasting
8/10	. . Cutting-out using pattern grading (for trimming <a href="#">A43D 8/38</a> ; pattern grading in making clothes <a href="#">A41H 3/00</a> ; pattern copying in general <a href="#">B23Q 33/00</a> , <a href="#">B23Q 35/00</a> )	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 <a href="#">A43D 8/44</a> ; of leather in general <a href="#">C14B 1/56</a> )	11/14	. Devices for treating shoe parts, e.g. stiffeners, with steam or liquid (for soled shoes <a href="#">A43D 95/12</a> )
8/18	. . by punching or perforating (punching for eyelet-setting <a href="#">A43D 100/02</a> )	11/145	. . {with means, e.g. transport chains, for continuously transferring the shoe parts through the machines}
8/20	. . . Dies therefor	<b>13/00</b>	<b>Machines for pulling-over the uppers when loosely laid upon the last and tacking the toe end</b>
8/22	. . by embossing or printing (printing per se, stamping per se <a href="#">B41</a> )	13/02	. Devices for locating caps or stiffeners on pulling-over machines
8/24	. . . Embossing using heat, e.g. high frequency electric current	<b>15/00</b>	<b>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 <a href="#">D05B</a>)</b>
8/26	. Marking for future work ( <a href="#">A43D 8/16</a> takes precedence; printing per se, stamping per se <a href="#">B41</a> )	<b>17/00</b>	<b>Pulling-over or lasting machines with oscillating shoe supports</b>
8/265	. . {Marking buttonhole locations}	<b>19/00</b>	<b>Hand lasting; Lasting pincers</b>
8/28	. . Patterns for drawing cut-outs (in making clothes <a href="#">A41H 3/00</a> )	19/02	. Tacking or nailing devices for use with lasting pincers
8/30	. . Charting sheet material for subsequent cutting	<b>21/00</b>	<b>Lasting machines</b>
8/32	. Working on edges or margins (of leather in general <a href="#">C14B 1/02</a> , <a href="#">C14B 11/00</a> )	21/003	. {with lasting strings, stretching straps or the like, for forming the shank portions of shoes}
8/34	. . by skiving ( <a href="#">A43D 8/48</a> takes precedence)	21/006	. {with rotating lasting means}
8/36	. . by trimming the margins of sole blanks (trimming as an intermediate operation in shoemaking <a href="#">A43D 27/00</a> , as a finishing operation in shoemaking <a href="#">A43D 87/00</a> )	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 ( <a href="#">A43D 21/16</a> , <a href="#">A43D 21/18</a> take precedence)
8/42	. . by singeing, contracting, dyeing	21/08	. with last supports and toe- or heel-embracing wipers movable both horizontally and vertically ( <a href="#">A43D 21/16</a> takes precedence)
8/44	. Creasing presses (folding on margins <a href="#">A43D 8/40</a> )	21/10	. Bed-lasting machines
8/46	. Splitting (of leather in general <a href="#">C14B 1/02</a> )	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 {( <a href="#">A43D 21/16</a> , <a href="#">A43D 21/18</a> 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 <a href="#">A43D 27/04</a> )	21/125	. . {with a plurality of pincers ( <a href="#">A43D 21/122</a> takes precedence)}
8/52	. Flexing (of leather in general <a href="#">C14B</a> )	21/127	. . {with wipers ( <a href="#">A43D 21/16</a> , <a href="#">A43D 21/18</a> 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
<b>Pulling-over or lasting</b>		21/163	. . {with heel-embracing wipers}
<b>9/00</b>	<b>Devices for binding the uppers upon the lasts (for the toe ends <a href="#">A43D 15/00</a>)</b>		
<b>11/00</b>	<b>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</b>		
11/003	. {Applying or removing protective coverings}		
11/006	. {Devices for temporarily fixing or aligning insoles on lasts}		

- 21/166 . . {with toe-embracing wipers}
- 21/18 . with lasting pincers and straight-acting wipers, also for forming the shank portions of shoes
- 23/00 Single parts for pulling-over or lasting machines (nailing devices [A43D 75/00](#))**
- 23/02 . Wipers; Sole-pressers; Last-supports; Pincers
- 23/022 . . {Sole-pressers}
- 23/025 . . {Last-supports}
- 23/027 . . {Pincers}
- 23/04 . Last-carriers; Shoe-guides
- 23/06 . Devices for cutting-off superfluous material on the uppers or linings
- Making or fastening soles, heels or welts, or preparing same for fastening to the shoe; Carrying out other operations subsequent to lasting; Turning ([sewing D05B](#))**
- 25/00 Devices for gluing shoe parts**
- 25/047 . Devices for lasting with adhesives or for gluing together insoles and uppers ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- 25/053 . . with rotating gripping means
- 25/06 . Devices for gluing soles on shoe bottoms ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- 25/063 . . {Multiple pressing devices in a closed circuit, e.g. rotating multiple pressing devices}
- 25/066 . . {Heel clamps or heel presses for glueing heels to shoe bottoms}
- 25/07 . . using flexible diaphragm pressing devices
- 25/08 . . Welt hold-down devices
- 25/10 . . Press-pads or other supports of shoe-gluing presses
- 25/12 . Devices for gluing heel-breasts to heels or for gluing coverings on heels ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- 25/123 . . {Devices for glueing heel-breasts to heels}
- 25/126 . . {Devices for glueing coverings on heels}
- 25/14 . Devices for filling the shoe bottom
- 25/16 . Devices for making glued platform shoes
- 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](#))
- 25/181 . . {by rollers}
- 25/183 . . {by nozzles}
- 25/185 . . {by imprinter plates}
- 25/186 . . {by dipping}
- 25/188 . . {by grids}
- 25/20 . Arrangements for activating or for accelerating setting of adhesives, e.g. by using heat
- 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](#))**
- 27/02 . Soles or heels fixed on shoe bottoms (stamps or dies for soles or heel-lifts [C14B](#))
- 27/04 . . Heel-end portions of soles fixed on shoe bottoms (on loose soles [A43D 8/46](#))
- 27/06 . . Heel breast flaps
- 29/00 Machines for making soles from strips of material**
- 31/00 Machines for making or inserting shank stiffeners**
- 31/02 . Machines for making shank stiffeners
- 31/04 . Machines for inserting shank stiffeners
- 33/00 Machines for assembling lifts for heels (cutting-out heel lifts [A43D 8/02](#))**
- 33/02 . Gauges for heel lifts; Magazines for piling up heel lifts
- 33/04 . Nailing machines for building the heels from lifts
- 33/06 . Machines for sorting heel lifts
- 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](#))**
- 37/00 Machines for roughening soles or other shoe parts preparatory to gluing**
- 37/005 . {characterised by constructional details of the rotative tools used therewith}
- 39/00 Machines for making foot-supporting pads or instep-raisers for flat feet**
- 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](#))**
- 43/02 . for making stitch lips by cutting
- 43/06 . for applying reinforcing materials to insoles; Attachment of ornamental tapes or ribs, e.g. sewing ribs, on soles, or the like
- 44/00 Machines for attaching welts or rands**
- 47/00 Machines for trimming or butting welts fixed on uppers**
- 49/00 Machines for pounding**
- 51/00 Machines for lip-setting**
- 53/00 Machines for trimming-off surplus material along the in seam**
- 55/00 Machines for flattening, pressing, or rubbing the in seams of lasted shoes**
- 57/00 Machines for attaching the welt ends**
- 59/00 Machines for rasping the lasting-margins of shoes which are sewn through**
- 61/00 Machines for nail-pulling, nail-cutting, or nail-detecting**
- 63/00 Machines for carrying-out other finishing operations**
- 67/00 Machines for fastening soles or heels by means of screws or screwed wire**
- 69/00 Shoe-nailing machines (nailing machines in general [B27F](#))**
- 69/005 . {using nails being made from alternative materials, e.g. leather}
- 69/02 . using ready-made nails
- 69/04 . with apparatus for separating the nails from a wire or from a strip of metal or other material
- 69/06 . using ready-made staples
- 69/08 . with apparatus for making staples
- 69/10 . using ready-made wooden pegs
- 69/12 . with apparatus for separating the pegs from a strip of wood

69/14	. for nailing or stapling the lasted margin onto shoes with wooden soles	97/00	<b>Machines for making pulling-on pieces</b>
<b>71/00</b>	<b>Elements of nailing machines; Nail-feeding devices</b>	<b>98/00</b>	<b>Machines for making laces</b> (of leather <a href="#">C14B</a> ; braidings in general <a href="#">D04C</a> ); <b>Applying fibre or celluloid to ends of laces</b> (making tags from metal sheet <a href="#">B21D</a> ; from wire <a href="#">B21F</a> )
71/02	. Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn		
<b>75/00</b>	<b>Nailing devices on pulling-over or lasting machines</b>	<b>100/00</b>	<b>Setting or removing eyelets, buttons, lacing-hooks, or elastic gussets in shoes</b>
<b>79/00</b>	<b>Combined heel-pressing and nailing machines</b>	100/02	. Punching and eyelet-setting machines or tools (for garments in general <a href="#">A41H 37/02</a> )
<b>81/00</b>	<b>Machines for attaching top-lifts</b>	100/04	. . inserting invisible eyelets
<b>83/00</b>	<b>Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing</b>	100/06	. . inserting two eyelets simultaneously
		100/08	. Setting buttons on footwear (for garments <a href="#">A41H 37/00</a> )
<b>85/00</b>	<b>Machines or apparatus for turning, e.g. for making turn-shoes</b>	100/10	. Machines or tools for setting lacing-hooks in shoes
		100/12	. Machines for inserting elastic gussets in shoes
		100/14	. Devices for removing buttons, lacing-hooks, or the like from shoes
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<b>86/00</b>	<b>Machines for assembling soles or heels onto uppers, not provided for in groups <a href="#">A43D 25/00</a> - <a href="#">A43D 83/00</a>, e.g. by welding</b>	<b>Miscellaneous mechanisms for shoemaking</b>	
<b>Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances</b>			
<b>87/00</b>	<b>Edge or heel cutters; Machines for trimming the heel breast</b> (trimming machines for wooden heels <a href="#">B27M</a> ; copying machines <a href="#">B44B</a> )	<b>111/00</b>	<b>Shoe machines with conveyors for jacked shoes {or for shoes or shoe parts}</b>
<b>89/00</b>	<b>Sole-levelling machines with rolls</b>	111/003	. {with clamping or gripping mechanism}
<b>91/00</b>	<b>Stitch-separating or seam-indenting machines</b>	111/006	. {with special means to place the shoe or shoe part in the following machine}
<b>93/00</b>	<b>Edge-indenting machines</b>	<b>113/00</b>	<b>Machines for making shoes with out-turned flanges of the uppers or for making moccasins</b>
<b>95/00</b>	<b>Shoe-finishing machines</b>	<b>115/00</b>	<b>Machines for skiving or removing heel-lifts, heels, or soles, or for removing stitches, preparatory to repair</b>
95/02	. Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like	<b>117/00</b>	<b>Racks for receiving or transporting shoes or shoe parts; Other conveying means</b>
95/04	. Machines for laying channel-flaps	<b>119/00</b>	<b>Driving or controlling mechanisms of shoe machines; Frames for shoe machines</b>
95/06	. Machines for colouring or chemical treatment; Ornamenting the sole bottoms (burnishing <a href="#">A43D 95/20</a> )	<hr/>	
95/08	. Machines or tools for scouring, abrading, or finishing, with or without dust-separating (suction cleaners for removing dust <a href="#">A47L 5/00</a> ; domestic cleaning of footwear <a href="#">A47L 23/00</a> )	<b>2200/00</b>	<b>Machines or methods characterised by special features</b>
95/10	. Drying or heating devices for shoes	2200/10	. Fully automated machines, i.e. machines working without human intervention
95/12	. Devices for conditioning, tempering, or moistening (preparatory to pulling-over or lasting <a href="#">A43D 11/14</a> )	2200/20	. Machines including a carousel with different working posts around a turning table
95/125	. . {with means, e.g. transport chains, for continuously transferring shoes through the devices}	2200/30	. Machines including a magazine, e.g. for feeding blanks, pre-forms or sheets
95/14	. incorporating marking, printing, or embossing apparatus (ornamentation of shoe part blanks <a href="#">A43D 8/16</a> ; printing per se, stamping per se <a href="#">B41</a> )	2200/40	. Multitool machines, e.g. machines with a plurality of tools or working heads
95/16	. Burnishing tools for shoemaking (in general <a href="#">B24D</a> )	2200/50	. Machines using pneumatic means
95/18	. . Devices for heating the burnishing tools for shoemaking	2200/60	. Computer aided manufacture of footwear, e.g. CAD or CAM
95/20	. Machines for burnishing soles or heels	<b>999/00</b>	<b>Subject matter not provided for in other groups of this subclass</b>
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		