

A43 FOOTWEAR**A43D MACHINES, TOOLS, EQUIPMENT OR METHODS FOR MANUFACTURING OR REPAIRING FOOTWEAR [6]**

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.

MEASUREMENT OF FOOT OR LAST	1/00		
LASTS	3/00		
WORKING-UP UPPERS OR STIFFENERS	8/00 8/34, 8/38 8/54		
PULLING-OVER OR LASTING.....	9/00 23/00		
MAKING OR PREPARING PARTS OF SHOES BEFORE ASSEMBLING			
Soles	8/36, 8/50, 8/52, 29/00, 35/00, 37/00	44/00	Securing welts
Heels, heel lifts	33/00, 83/00		OTHER OPERATIONS SUBSEQUENT TO LASTING
Shank stiffeners.....	31/00		On soles or heels
ASSEMBLING PARTS OF SHOES			On welts.....
Securing by metallic elements.....	69/00, 71/00, 75/00		On inseams
Securing by gluing.....	25/00		Other work.....
Securing by other techniques, e.g. welding.....	86/00		PERFORMING FINISHING OPERATIONS.....
Securing soles	25/00, 44/00, 67/00, 86/00		MAKING, SETTING, OR REMOVING ACCESSORIES.....
Securing heels.....	67/00, 79/00, 81/00, 86/00		OTHER EQUIPMENT OR MECHANISMS FOR SHOEMAKING OR REPAIRING.....
			SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS

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)
- 1/04 . 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)
- 3/04 . 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)

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

- 5/02 . 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) [3]
- 8/02 . Cutting-out (cutting in general B26D, B26F; of leather articles in general C14B 5/00) [3]
- 8/04 . . Stamping-out (A43D 8/10 takes precedence) [3]
- 8/06 . . . Dies therefor [3]
- 8/08 . . . Combined stamping-out and bonding, e.g. high frequency electric current being applied between cutting edge and work support [3]
- 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) [3]
- 8/12 . . . Patterns or templates therefor [3]
- 8/14 Applying bindings to pattern edges [3]
- 8/16 . Ornamentation (by creasing A43D 8/44; of leather in general C14B 1/56) [3]
- 8/18 . . by punching or perforating (punching for eyelet-setting A43D 100/02) [3]

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- 8/20 . . . Dies therefor [3]
- 8/22 . . by embossing or printing (printing in general, stamping B41) [3]
- 8/24 . . . Embossing using heat, e.g. high frequency electric current [3]
- 8/26 . Marking for future work (A43D 8/16 takes precedence; printing, stamping B41) [3]
- 8/28 . . Patterns for drawing cut-outs (in making clothes A41H 3/00) [3]
- 8/30 . . Charting sheet material for subsequent cutting [3]
- 8/32 . Working on edges or margins (of leather in general C14B 1/02, C14B 11/00) [3]
- 8/34 . . by skiving (A43D 8/48 takes precedence) [3]
- 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) [3]
- 8/38 . . . by cutting-out, e.g. using templates [3]
- 8/40 . . by folding, turning in or over, hammering [3]
- 8/42 . . by singeing, contracting, dyeing [3]
- 8/44 . Creasing presses (folding on margins A43D 8/40) [3]
- 8/46 . Splitting (of leather in general C14B 1/02) [3]
- 8/48 . . combined with skiving [3]
- 8/50 . . Combined splitting and trimming of the heel-seat portions of sole blanks (of soles fixed to shoe bottoms A43D 27/04) [3]
- 8/52 . Flexing (of leather in general C14B) [3]
- 8/54 . . by milling [3]
- 8/56 . . of sole blanks by slitting [3]

Pulling-over or lasting

- 9/00 **Devices for binding the uppers upon the lasts** (for the toe ends A43D 15/00)
- 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**
- 11/01 . Machines for applying or securing reinforcements or ornamental straps to uppers (to soles or insoles A43D 43/06) [3]
- 11/02 . . to the margins thereof [3]
- 11/03 . . Coating with thermoplastic materials to stiffen the toe or heel portion [3]
- 11/04 . Machines for seam-pressing or flattening shoe parts, quarters, or the like (on lasted shoes A43D 55/00)
- 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
- 11/10 . Devices for holding the lacing portions in position during lasting
- 11/12 . Machines for forming the toe part or heel part of shoes, with or without use of heat
- 11/14 . Devices for treating shoe parts, e.g. stiffeners, with steam or liquid (for soled shoes A43D 95/12)
- 13/00 **Machines for pulling-over the uppers when loosely laid upon the last and tacking the toe end**
- 13/02 . Devices for locating caps or stiffeners on pulling-over machines
- 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)

17/00 **Pulling-over or lasting machines with oscillating shoe supports**

19/00 **Hand lasting; Lasting pincers**

- 19/02 . Tacking or nailing devices for use with lasting pincers
- 21/00 **Lasting machines**
- 21/02 . with one single lasting gripper
- 21/04 . for lasting the opposite sides of the shoe one after another
- 21/06 . for wooden soles (A43D 21/16, A43D 21/18 take precedence)
- 21/08 . with last supports and toe- or heel-embracing wipers movable both horizontally and vertically (A43D 21/16 takes precedence)
- 21/10 . Bed-lasting machines
- 21/12 . with lasting clamps, shoe-shaped clamps, wipers, stretching straps, or the like for forming the toe or heel parts on the last
- 21/14 . for toe or heel parts, with nailing devices
- 21/16 . with lasting pincers or toe- or heel-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
- 23/04 . 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) [3]
- 25/053 . . with rotating gripping means [3]
- 25/06 . Devices for gluing soles on shoe bottoms (A43D 25/18, A43D 25/20 take precedence) [3]
- 25/07 . . using flexible diaphragm pressing devices [3]
- 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) [3]
- 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) [3]
- 25/20 . Arrangements for activating or for accelerating setting of adhesives, e.g. by using heat [3]

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
- 27/04 . . Heel-end portions of soles [3]
- 27/06 . . Heel breast flaps [3]

29/00 **Machines for making soles from strips of material**

31/00	Machines for making or inserting shank stiffeners	75/00	Nailing devices on pulling-over or lasting machines
31/02	. Machines for making shank stiffeners	79/00	Combined heel-pressing and nailing machines
31/04	. Machines for inserting shank stiffeners	81/00	Machines for attaching top-lifts
33/00	Machines for assembling lifts for heels (cutting-out heel lifts A43D 8/02)	83/00	Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing
33/02	. Gauges for heel lifts; Magazines for piling up heel lifts	85/00	Machines or apparatus for turning, e.g. for making turn-shoes
33/04	. Nailing machines for building the heels from lifts	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 [6]
33/06	. Machines for sorting heel lifts		
35/00	Presses for shaping pre-existing loose soles, shoe bottoms, or soles fixed to shoe bottoms (gluing soles on shoe bottoms A43D 25/06)		
37/00	Machines for roughening soles or other shoe parts preparatory to gluing		<u>Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances</u>
39/00	Machines for making foot-supporting pads or instep-raisers for flat feet	87/00	Edge or heel cutters; Machines for trimming the heel breast (trimming machines for wooden heels B27M; copying machines B44B)
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)	89/00	Sole-levelling machines with rolls
43/02	. for making stitch lips by cutting	91/00	Stitch-separating or seam-indenting machines
43/06	. for applying reinforcing materials to insoles; Attachment of ornamental tapes or ribs, e.g. sewing ribs, on soles, or the like	93/00	Edge-indenting machines
44/00	Machines for attaching welts or rands	95/00	Shoe-finishing machines
47/00	Machines for trimming or butting welts fixed on uppers	95/02	. Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like
49/00	Machines for pounding	95/04	. Machines for laying channel-flaps
51/00	Machines for lip-setting	95/06	. Machines for colouring or chemical treatment; Ornamenting the sole bottoms (burnishing A43D 95/20)
53/00	Machines for trimming-off surplus material along the in seam	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)
55/00	Machines for flattening, pressing, or rubbing the in seams of lasted shoes	95/10	. Drying or heating devices for shoes
57/00	Machines for attaching the welt ends	95/12	. Devices for conditioning, tempering, or moistening (preparatory to pulling-over or lasting A43D 11/14)
59/00	Machines for rasping the lasting-margins of shoes which are sewn through	95/14	. incorporating marking, printing, or embossing apparatus (ornamentation of shoe part blanks A43D 8/16; printing per se, stamping per se B41)
61/00	Machines for nail-pulling, nail-cutting, or nail-detecting	95/16	. Burnishing tools for shoemaking (in general B24D)
63/00	Machines for carrying out other finishing operations	95/18	. . Devices for heating the burnishing tools for shoemaking
67/00	Machines for fastening soles or heels by means of screws or screwed wire	95/20	. Machines for burnishing soles or heels
69/00	Shoe-nailing machines (nailing machines in general B27F)	95/22	. Machines for burnishing the edges of soles, with or without devices for edge-indenting
69/02	. using ready-made nails	95/24	. Machines for buffing soles
69/04	. with apparatus for separating the nails from a wire or from a strip of metal or other material	95/26	. Devices for applying wax
69/06	. using ready-made staples	95/28	. Machines for attaching protectors to soles or heels
69/08	. with apparatus for making staples	97/00	Machines for making pulling-on pieces
69/10	. using ready-made wooden pegs	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) [8]
69/12	. with apparatus for separating the pegs from a strip of wood	100/00	Setting or removing eyelets, buttons, lacing-hooks, or elastic gussets in shoes
69/14	. for nailing or stapling the lasted margin on to shoes with wooden soles	100/02	. Punching and eyelet-setting machines or tools (for garments in general A41H 37/02)
71/00	Elements of nailing machines; Nail-feeding devices	100/04	. . inserting invisible eyelets
71/02	. Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn	100/06	. . inserting two eyelets simultaneously
		100/08	. Setting buttons on footwear (for garments A41H 37/00)
		100/10	. Machines or tools for setting lacing-hooks in shoes

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- 100/12 . Machines for inserting elastic gussets in shoes
- 100/14 . Devices for removing buttons, lacing-hooks, or the like from shoes

Other mechanisms for shoemaking or repairing

- 111/00 Shoe machines with conveyers for jacked shoes
- 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

999/00 Subject matter not provided for in other groups of this subclass [8]