

## SECTION A — HUMAN NECESSITIES

## A43 FOOTWEAR

**A43D MACHINES, TOOLS, EQUIPMENT OR METHODS FOR MANUFACTURING OR REPAIRING FOOTWEAR** (sewing D05B) [6]

**Note(s)**

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.

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**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]
- 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**

**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**

- 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 (gluing soles on shoe bottoms A43D 25/06)**

**37/00 Machines for roughening soles or other shoe parts preparatory to gluing**

**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)**

- 69/02 • 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 on to shoes with wooden soles

**71/00 Elements of nailing machines; Nail-feeding devices**

- 71/02 • Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn

**75/00 Nailing devices on pulling-over or lasting machines**

**79/00 Combined heel-pressing and nailing machines**

**81/00 Machines for attaching top-lifts**

**83/00 Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing**

**85/00 Machines or apparatus for turning, e.g. for making turn-shoes**

**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]**

**Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances**

**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**

## A43D

- 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)
  - 95/14 • incorporating marking, printing, or embossing apparatus (ornamentation of shoe part blanks A43D 8/16; printing per se, stamping per se 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) [2006.01]

- 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
  - 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
  - 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**
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- 999/00 Subject matter not provided for in other groups of this subclass [2006.01]**