

**CPC****COOPERATIVE PATENT CLASSIFICATION****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.

**Guidance heading:** Measuring devices; Lasts; Tools

**A43D 1/00****Foot or last measuring devices; Measuring devices for shoe parts**

- A43D 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](#))
- A43D 1/022 . . {involving making footprints or permanent moulds of the foot }
- A43D 1/025 . . {comprising optical means, e.g. mirrors, photo-electric cells, for measuring or inspecting feet }
- A43D 1/027 . . {Shoe fit indicating devices }
- A43D 1/04 . Last-measuring devices
- A43D 1/06 . Measuring devices for the inside measure of shoes, for the height of heels, or for the arrangement of heels
- A43D 1/08 . Measuring devices for shoe parts

**A43D 3/00****Lasts**

- A43D 3/02 . Lasts for making or repairing shoes (making of wooden lasts [B27M 3/20](#))
- A43D 3/021 . . {for orthopaedic footwear }
- A43D 3/022 . . {comprising means, e.g. hooks, for holding, fixing or centering shoe parts on the last }
- A43D 3/023 . . {Hinge constructions for articulated lasts }
- A43D 3/024 . . {Lasts with a fore part and heel section relatively slideable to one another along an inclined line of cut }
- A43D 3/025 . . {Longitudinally expansible lasts }
- A43D 3/026 . . {Lasts for making rubber footwear or for vulcanizing rubber soles to footwear }
- A43D 3/027 . . {Lasts with exchangeable parts, e.g. for changing the form or for remodelling }
- A43D 3/028 . . {Tack retaining means for lasts }
- A43D 3/029 . . {Constructional features of the heel section }
- A43D 3/04 . Pneumatic lasts; Elastic lasts

- A43D 3/06 . Wedge locks for lasts
- A43D 3/08 . Devices for stretching special parts of shoes
- A43D 3/10 . Devices for removing lasts
- A43D 3/12 . Devices for inserting or reinserting lasts
- A43D 3/14 . Stretching or spreading lasts; Boot-trees; Fillers; Devices for maintaining the shape of the shoe ([drying of footwear A47L 23/20](#))
- A43D 3/1408 .. {Devices for heating or drying shoes }
- A43D 3/1416 .. {Boot-trees }
- A43D 3/1425 .. {Devices for sole stretching }
- A43D 3/1433 .. {Shoe-trees }
- A43D 3/1441 ... {spreading the width of a shoe, i.e. laterally expandable }
- A43D 3/145 .... {adjustable }
- A43D 3/1458 ..... {by a screw }
- A43D 3/1466 ... {stretching the length of a shoe, i.e. longitudinally expandable }
- A43D 3/1475 .... {adjustable }
- A43D 3/1483 ..... {by a screw }
- A43D 3/1491 ... {with means for sweaty feet, e.g. with disinfecting or deodorant means ([cleaning of a footwear A47L 23/20](#)) }
  
- A43D 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](#)**
- A43D 5/005 . {for heel removing }
- A43D 5/02 . Stands for making footwear ([stands for cleaning shoes A47L 23/16](#))
- A43D 5/04 . Knives ([knives in general B26B](#) )
- A43D 5/06 . Tools for cutting off the ends of nails or pegs in shoes
- A43D 5/08 . Awls ([making B21G](#) )
- A43D 5/10 . Shoe-peg rasps ([wood rasps B27G 17/06](#))
- A43D 5/12 . Hand nailing apparatus for shoemaking ([A43D 19/02](#) takes precedence; nailing apparatus in general [B25C](#) , [B27F](#) )
- A43D 5/14 .. Hand pincers for stapling
  
- A43D 8/00** **Machines for cutting, ornamenting, marking or otherwise working up shoe part blanks** ([pulling-over or lasting A43D 9/00 to A43D 23/00](#); making or fastening soles, heels or welts [A43D 25/00 to A43D 83/00](#))
- A43D 8/003 . {specially adapted for forming upper blanks or leggings by stretching }

- A43D 8/006 . {for forming shoe stiffeners }
- A43D 8/02 . Cutting-out (cutting in general [B26D](#) , [B26F](#) ; of leather articles in general [C14B 5/00](#))
- A43D 8/04 . . Stamping-out ([A43D 8/10](#) takes precedence)
- A43D 8/06 . . . Dies therefor
- A43D 8/08 . . . Combined stamping-out and bonding, e.g. high frequency electric current being applied between cutting edge and work support
- A43D 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](#))
- A43D 8/12 . . . Patterns or templates therefor
- A43D 8/14 . . . . Applying bindings to pattern edges
- A43D 8/16 . Ornamentation (by creasing [A43D 8/44](#); of leather in general [C14B 1/56](#))
- A43D 8/18 . . by punching or perforating (punching for eyelet-setting [A43D 100/02](#))
- A43D 8/20 . . . Dies therefor
- A43D 8/22 . . by embossing or printing (printing per se, stamping per se [B41](#) )
- A43D 8/24 . . . Embossing using heat, e.g. high frequency electric current
- A43D 8/26 . Marking for future work ([A43D 8/16](#) takes precedence; printing per se, stamping per se [B41](#) )
- A43D 8/265 . . {Marking buttonhole locations }
- A43D 8/28 . . Patterns for drawing cut-outs (in making clothes [A41H 3/00](#))
- A43D 8/30 . . Charting sheet material for subsequent cutting
- A43D 8/32 . Working on edges or margins (of leather in general [C14B 1/02](#), [C14B 11/00](#))
- A43D 8/34 . . by skiving ([A43D 8/48](#) takes precedence)
- A43D 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](#))
- A43D 8/38 . . . by cutting-out, e.g. using templates
- A43D 8/40 . . by folding, turning in or over, hammering
- A43D 8/42 . . by singeing, contracting, dyeing
- A43D 8/44 . Creasing presses (folding on margins [A43D 8/40](#))
- A43D 8/46 . Splitting (of leather in general [C14B 1/02](#))
- A43D 8/48 . . combined with skiving
- A43D 8/50 . . Combined splitting and trimming of the heel-seat portions of sole blanks (of soles fixed to shoe bottoms [A43D 27/04](#))
- A43D 8/52 . Flexing (of leather in general [C14B](#) )
- A43D 8/54 . . by milling
- A43D 8/56 . . of sole blanks by slitting

**Guidance heading:** Pulling-over or lasting

**A43D 9/00** Devices for binding the uppers upon the lasts (for the toe ends [A43D 15/00](#))

- A43D 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**
- A43D 11/003      . {Applying or removing protective coverings }
- A43D 11/006      . {Devices for temporarily fixing or aligning insoles on lasts }
- A43D 11/01      . Machines for applying reinforcement or ornamental straps to the margins of uppers (to soles or insoles [A43D 43/06](#))
- A43D 11/02      . . to the margins thereof
- A43D 11/03      . . Coating with thermoplastic materials to stiffen the toe or heel portion
- A43D 11/04      . Machines for seam-pressing or flattening shoe parts, quarters, or the like (on lasted shoes [A43D 55/00](#))
- A43D 11/06      . Machines for temporary buttoning of shoe parts
- A43D 11/08      . Machines for temporary lacing of shoe parts or for cutting-away the lacing strips after lasting
- A43D 11/085      . . {Lacing machines }
- A43D 11/10      . Devices for holding the lacing portions in position during lasting
- A43D 11/12      . Machines for forming the toe part or heel part of shoes, with or without use of heat
- A43D 11/14      . Devices for treating shoe parts, e.g. stiffeners, with steam or liquid (for soled shoes [A43D 95/12](#))
- A43D 11/145      . . {with means, e.g. transport chains, for continuously transferring the shoe parts through the machines }
- A43D 13/00**      **Machines for pulling-over the uppers when loosely laid upon the last and tacking the toe end**
- A43D 13/02      . Devices for locating caps or stiffeners on pulling-over machines
- A43D 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](#) )**
- A43D 17/00**      **Pulling-over or lasting machines with oscillating shoe supports**
- A43D 19/00**      **Hand lasting; Lasting pincers**
- A43D 19/02      . Tacking or nailing devices for use with lasting pincers
- A43D 21/00**      **Lasting machines**

- A43D 21/003 . {with lasting strings, stretching straps or the like, for forming the shank portions of shoes }
- A43D 21/006 . {with rotating lasting means }
- A43D 21/02 . with one single lasting gripper
- A43D 21/04 . for lasting the opposite sides of the shoe one after another
- A43D 21/06 . for wooden soles ([A43D 21/16](#), [A43D 21/18](#) take precedence)
- A43D 21/08 . with last supports and toe- or heel-embracing wipers movable both horizontally and vertically ([A43D 21/16](#) takes precedence)
- A43D 21/10 . Bed-lasting machines
- A43D 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) }
- A43D 21/122 .. {with pincers and clamps }
- A43D 21/125 .. {with a plurality of pincers ([A43D 21/122](#) takes precedence) }
- A43D 21/127 .. {with wipers ([A43D 21/16](#), [A43D 21/18](#) take precedence) }
- A43D 21/14 . for toe or heel parts, with nailing devices
- A43D 21/16 . with lasting pincers {and } toe- or heel-embracing wipers
- A43D 21/163 .. {with heel-embracing wipers }
- A43D 21/166 .. {with toe-embracing wipers }
- A43D 21/18 . with lasting pincers and straight-acting wipers, also for forming the shank portions of shoes
  
- A43D 23/00** **Single parts for pulling-over or lasting machines** ([nailing devices A43D 75/00](#))
  
- A43D 23/02 . Wipers; Sole-pressers; Last-supports; Pincers
- A43D 23/022 .. {Sole-pressers }
- A43D 23/025 .. {Last-supports }
- A43D 23/027 .. {Pincers }
- A43D 23/04 . Last-carriers; Shoe-guides
- A43D 23/06 . Devices for cutting-off superfluous material on the uppers or linings
  
- Guidance heading:** **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](#) )
  
- A43D 25/00** **Devices for gluing shoe parts**
  
- A43D 25/047 . Devices for lasting with adhesives or for gluing together insoles and uppers

- [25/18](#), [A43D 25/20](#) take precedence)
- A43D 25/053 . . with rotating gripping means
  - A43D 25/06 . Devices for gluing soles on shoe bottoms ([A32D 25/18](#), [A43D 25/20](#) take precedence)
  - A43D 25/063 . . {Multiple pressing devices in a closed circuit, e.g. rotating multiple pressing devices }
  - A43D 25/066 . . {Heel clamps or heel presses for glueing heels to shoe bottoms }
  - A43D 25/07 . . using flexible diaphragm pressing devices
  - A43D 25/08 . . Welt hold-down devices
  - A43D 25/10 . . Press-pads or other supports of shoe-gluing presses
  - A43D 25/12 . Devices for gluing heel-breasts to heels or for gluing coverings on heels ([A43D 25/18](#), [A43D 25/20](#) take precedence)
  - A43D 25/123 . . {Devices for glueing heel-breasts to heels }
  - A43D 25/126 . . {Devices for glueing coverings on heels }
  - A43D 25/14 . Devices for filling the shoe bottom
  - A43D 25/16 . Devices for making glued platform shoes
  - A43D 25/18 . Devices for applying adhesives to shoe parts ([A43DF25/20](#) takes precedence; applying liquids or other fluent materials to surfaces in general [B05](#) )
  - A43D 25/181 . . {by rollers }
  - A43D 25/183 . . {by nozzles }
  - A43D 25/185 . . {by imprinter plates }
  - A43D 25/186 . . {by dipping }
  - A43D 25/188 . . {by grids }
  - A43D 25/20 . Arrangements for activating or for accelerating setting of adhesives, e.g. by using heat
  - A43D 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](#))
  - A43D 27/02 . Soles or heels fixed on shoe bottoms (stamps or dies for soles or heel-lifts [C14B](#) )
  - A43D 27/04 . . Heel-end portions of soles fixed on shoe bottoms (on loose soles [A43D 8/46](#))
  - A43D 27/06 . . Heel breast flaps
  - A43D 29/00** **Machines for making soles from strips of material**
  - A43D 31/00** **Machines for making or inserting shank stiffeners**
  - A43D 31/02 . Machines for making shank stiffeners
  - A43D 31/04 . Machines for inserting shank stiffeners
  - A43D 33/00** **Machines for assembling lifts for heels** (cutting-out heel lifts [A43D 8/02](#))

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|-------------------|---|
| A43D 33/02        | . Gauges for heel lifts; Magazines for piling up heel lifts   |
| A43D 33/04        | . Nailing machines for building the heels from lifts  |
| A43D 33/06        | . Machines for sorting heel lifts   |
| <b>A43D 35/00</b> | <b>Presses for shaping pre-existing loose soles, shoe bottoms or soles fixed to shoe bottoms</b> ( <a href="#">glueing soles on shoe bottoms A43D 25/06</a> )           |
| <b>A43D 37/00</b> | <b>Machines for roughening soles or other shoe parts preparatory to gluing</b>  |
| A43D 37/005       | . {characterised by constructional details of the rotative tools used therewith }   |
| <b>A43D 39/00</b> | <b>Machines for making foot-supporting pads or instep-raisers for flat feet</b>   |
| <b>A43D 43/00</b> | <b>Machines for making stitch lips, or other preparatory treatment of soles or insoles before fixing same</b> ( <a href="#">flexing of soles or insoles A43D 8/52</a> ) |
| A43D 43/02        | . for making stitch lips by cutting   |
| A43D 43/06        | . for applying reinforcing materials to insoles; Attachment of ornamental tapes or ribs, e.g. sewing ribs, on soles, or the like  |
| <b>A43D 44/00</b> | <b>Machines for attaching welts or rands</b>  |
| <b>A43D 47/00</b> | <b>Machines for trimming or butting welts fixed on uppers</b>   |
| <b>A43D 49/00</b> | <b>Machines for pounding</b>  |
| <b>A43D 51/00</b> | <b>Machines for lip-setting</b>   |
| <b>A43D 53/00</b> | <b>Machines for trimming-off surplus material along the in seam</b>   |
| <b>A43D 55/00</b> | <b>Machines for flattening, pressing, or rubbing the in seams of lasted shoes</b>   |
| <b>A43D 57/00</b> | <b>Machines for attaching the welt ends</b>   |
| <b>A43D 59/00</b> | <b>Machines for rasping the lasting-margins of shoes which are sewn through</b>   |
| <b>A43D 61/00</b> | <b>Machines for nail-pulling, nail-cutting, or nail-detecting</b>   |
| <b>A43D 63/00</b> | <b>Machines for carrying-out other finishing operations</b>   |

**A43D 67/00**                    **Machines for fastening soles or heels by means of screws or screwed wire**

**A43D 69/00**                    **Shoe-nailing machines** ([nailing machines in general B27F](#) )

A43D 69/005                    .    {[using nails being made from alternative materials, e.g. leather](#) }

A43D 69/02                    .    using ready-made nails

A43D 69/04                    .    with apparatus for separating the nails from a wire or from a strip of metal or other material

A43D 69/06                    .    using ready-made staples

A43D 69/08                    .    with apparatus for making staples

A43D 69/10                    .    using ready-made wooden pegs

A43D 69/12                    .    with apparatus for separating the pegs from a strip of wood

A43D 69/14                    .    for nailing or stapling the lasted margin onto shoes with wooden soles

**A43D 71/00**                    **Elements of nailing machines; Nail-feeding devices**

A43D 71/02                    .    Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn

**A43D 75/00**                    **Nailing devices on pulling-over or lasting machines**

**A43D 79/00**                    **Combined heel-pressing and nailing machines**

**A43D 81/00**                    **Machines for attaching top-lifts**

**A43D 83/00**                    **Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing**

**A43D 85/00**                    **Machines or apparatus for turning, e.g. for making turn-shoes**

**Guidance heading:**

**A43D 86/00**                    **Machines for assembling soles or heels onto uppers, not provided for in groups [A43D 25/00](#) to [A43D 83/00](#), e.g. by welding**

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



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| <b>A43D 87/00</b> | <b>Edge or heel cutters; Machines for trimming the heel breast</b> ( <a href="#">trimming machines for wooden heels B27M</a> ; <a href="#">copying machines B44B</a> )  |
| <b>A43D 89/00</b> | <b>Sole-levelling machines with rolls</b>   |
| <b>A43D 91/00</b> | <b>Stitch-separating or seam-indenting machines</b>   |
| <b>A43D 93/00</b> | <b>Edge-indenting machines</b>  |
| <b>A43D 95/00</b> | <b>Shoe-finishing machines</b>  |
| A43D 95/02        | . Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like   |
| A43D 95/04        | . Machines for laying channel-flaps   |
| A43D 95/06        | . Machines for colouring or chemical treatment; Ornamenting the sole bottoms ( <a href="#">burnishing A43D 95/20</a> )  |
| A43D 95/08        | . Machines or tools for scouring, abrading, or finishing, with or without dust-separating ( <a href="#">suction cleaners for removing dust A47L 5/00</a> ; <a href="#">domestic cleaning of footwear A47L 23/00</a> ) |
| A43D 95/10        | . Drying or heating devices for shoes   |
| A43D 95/12        | . Devices for conditioning, tempering, or moistening ( <a href="#">preparatory to pulling-over or lasting A43D 11/14</a> )  |
| A43D 95/125       | . . {with means, e.g. <a href="#">transport chains, for continuously transferring shoes through the devices</a> }   |
| A43D 95/14        | . incorporating marking, printing, or embossing apparatus ( <a href="#">ornamentation of shoe part blanks A43D 8/16</a> ; <a href="#">printing per se</a> , <a href="#">stamping per se B41</a> )                     |
| A43D 95/16        | . Burnishing tools for shoemaking ( <a href="#">in general B24D</a> )   |
| A43D 95/18        | . . Devices for heating the burnishing tools for shoemaking   |
| A43D 95/20        | . Machines for burnishing soles or heels  |
| A43D 95/22        | . Machines for burnishing the edges of soles, with or without devices for edge-indenting  |
| A43D 95/24        | . Machines for buffing soles  |
| A43D 95/26        | . Devices for applying wax  |
| A43D 95/28        | . Machines for attaching protectors to soles or heels   |
| <b>A43D 97/00</b> | <b>Machines for making pulling-on pieces</b>  |
| <b>A43D 98/00</b> | <b>Machines for making laces</b> ( <a href="#">of leather C14B</a> ; <a href="#">braidings in general D04C</a> ) ; <b>Applying</b>  |

**fibre or celluloid to ends of laces** (making tags from metal sheet [B21D](#) ; from wire [B21F](#) )

**A43D 100/00**      **Setting or removing eyelets, buttons, lacing-hooks, or elastic gussets in shoes**

- A43D 100/02      .    Punching and eyelet-setting machines or tools (for garments in general [A41H 37/02](#))
- A43D 100/04      . .    inserting invisible eyelets
- A43D 100/06      . .    inserting two eyelets simultaneously
- A43D 100/08      .    Setting buttons on footwear (for garments [A41H 37/00](#))
- A43D 100/10      .    Machines or tools for setting lacing-hooks in shoes
- A43D 100/12      .    Machines for inserting elastic gussets in shoes
- A43D 100/14      .    Devices for removing buttons, lacing-hooks, or the like from shoes

**Guidance heading:**    **Miscellaneous mechanisms for shoemaking**

**A43D 111/00**      **Shoe machines with conveyers for jacked shoes** {or for shoes or shoe parts }

- A43D 111/003      .    with clamping or gripping mechanism
- A43D 111/006      .    with special means to place the shoe or shoe part in the following machine

**A43D 113/00**      **Machines for making shoes with out-turned flanges of the uppers or for making moccasins**

**A43D 115/00**      **Machines for skiving or removing heel-lifts, heels, or soles, or for removing stitches, preparatory to repair**

**A43D 117/00**      **Racks for receiving or transporting shoes or shoe parts; Other conveying means**

**A43D 119/00**      **Driving or controlling mechanisms of shoe machines; Frames for shoe machines**

**Guidance heading:**

**A43D 999/00**      **Subject matter not provided for in other groups of this subclass**

**Guidance heading:**

**A43D 2200/00**      **Machines or methods characterised by special features**

- A43D 2200/10 . Fully automated machines, i.e. machines working without human intervention
- A43D 2200/20 . Machines including a carousel with different working posts around a turning table
- A43D 2200/30 . Machines including a magazine, e.g. for feeding blanks, pre-forms or sheets
- A43D 2200/40 . Multitool machines, e.g. machines with a plurality of tools or working heads
- A43D 2200/50 . Machines using pneumatic means
- A43D 2200/60 . Computer aided manufacture of footwear, e.g. CAD or CAM