

**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 ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- A43D 25/053 .. with rotating gripping means
- A43D 25/06 . Devices for gluing soles on shoe bottoms ([A43D 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

<b>A43D 27/00</b>	<b>Machines for trimming as an intermediate operation</b> (working on edges or margins, e.g. by trimming, of shoe part blanks <a href="#">A43D 8/32</a> ; trimming as a finishing operation in shoemaking <a href="#">A43D 87/00</a> )
<a href="#">A43D 27/02</a>	. Soles or heels fixed on shoe bottoms (stamps or dies for soles or heel-lifts <a href="#">C14B</a> )
<a href="#">A43D 27/04</a>	.. Heel-end portions of soles fixed on shoe bottoms (on loose soles <a href="#">A43D 8/46</a> )
<a href="#">A43D 27/06</a>	.. Heel breast flaps
<b>A43D 29/00</b>	<b>Machines for making soles from strips of material</b>
<b>A43D 31/00</b>	<b>Machines for making or inserting shank stiffeners</b>
<a href="#">A43D 31/02</a>	. Machines for making shank stiffeners
<a href="#">A43D 31/04</a>	. Machines for inserting shank stiffeners
<b>A43D 33/00</b>	<b>Machines for assembling lifts for heels</b> (cutting-out heel lifts <a href="#">A43D 8/02</a> )
<a href="#">A43D 33/02</a>	. Gauges for heel lifts; Magazines for piling up heel lifts
<a href="#">A43D 33/04</a>	. Nailing machines for building the heels from lifts
<a href="#">A43D 33/06</a>	. 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> (glueing soles on shoe bottoms <a href="#">A43D 25/06</a> )
<b>A43D 37/00</b>	<b>Machines for roughening soles or other shoe parts preparatory to gluing</b>
<a href="#">A43D 37/005</a>	. { 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> (flexing of soles or insoles <a href="#">A43D 8/52</a> )
<a href="#">A43D 43/02</a>	. for making stitch lips by cutting
<a href="#">A43D 43/06</a>	. 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>
<b>A43D 67/00</b>	<b>Machines for fastening soles or heels by means of screws or screwed wire</b>
<b>A43D 69/00</b>	<b>Shoe-nailing machines</b> ( <a href="#">nailing machines in general B27F</a> )
A43D 69/005	. { <a href="#">using nails being made from alternative materials, e.g. leather</a> }
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
<b>A43D 71/00</b>	<b>Elements of nailing machines; Nail-feeding devices</b>



<a href="#">A43D 71/02</a>	<ul style="list-style-type: none"> <li>Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn</li> </ul>
<a href="#">A43D 75/00</a>	<b>Nailing devices on pulling-over or lasting machines</b>
<a href="#">A43D 79/00</a>	<b>Combined heel-pressing and nailing machines</b>
<a href="#">A43D 81/00</a>	<b>Machines for attaching top-lifts</b>
<a href="#">A43D 83/00</a>	<b>Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing</b>
<a href="#">A43D 85/00</a>	<b>Machines or apparatus for turning, e.g. for making turn-shoes</b>
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<a href="#">A43D 86/00</a>	<b>Machines for assembling soles or heels onto uppers, not provided for in groups <a href="#">A43D 25/00</a> to <a href="#">A43D 83/00</a>, e.g. by welding</b>
<b>Guidance heading:</b>	<b><u>Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances</u></b>
<a href="#">A43D 87/00</a>	<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> )
<a href="#">A43D 89/00</a>	<b>Sole-levelling machines with rolls</b>
<a href="#">A43D 91/00</a>	<b>Stitch-separating or seam-indenting machines</b>
<a href="#">A43D 93/00</a>	<b>Edge-indenting machines</b>
<a href="#">A43D 95/00</a>	<b>Shoe-finishing machines</b>
<a href="#">A43D 95/02</a>	<ul style="list-style-type: none"> <li>Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like</li> </ul>
<a href="#">A43D 95/04</a>	<ul style="list-style-type: none"> <li>Machines for laying channel-flaps</li> </ul>
<a href="#">A43D 95/06</a>	<ul style="list-style-type: none"> <li>Machines for colouring or chemical treatment; Ornamenting the sole bottoms (<a href="#">burnishing A43D 95/20</a>)</li> </ul>
<a href="#">A43D 95/08</a>	<ul style="list-style-type: none"> <li>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>)</li> </ul>

- A43D 95/10 . Drying or heating devices for shoes
- A43D 95/12 . Devices for conditioning, tempering, or moistening ([preparatory to pulling-over or lasting A43D 11/14](#))
- A43D 95/125 . . { with means, e.g. transport chains, for continuously transferring shoes through the devices }
- A43D 95/14 . incorporating marking, printing, or embossing apparatus ([ornamentation of shoe part blanks A43D 8/16](#); [printing per se](#) , [stamping per se B41](#))
- A43D 95/16 . Burnishing tools for shoemaking ([in general B24D](#))
- 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
- A43D 97/00      Machines for making pulling-on pieces**
- A43D 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](#))**
- 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**

<b>A43D 111/00</b>	<b>Shoe machines with conveyers for jacked shoes { or for shoes or shoe parts }</b>
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
<b>A43D 113/00</b>	<b>Machines for making shoes with out-turned flanges of the uppers or for making moccasins</b>
<b>A43D 115/00</b>	<b>Machines for skiving or removing heel-lifts, heels, or soles, or for removing stitches, preparatory to repair</b>
<b>A43D 117/00</b>	<b>Racks for receiving or transporting shoes or shoe parts; Other conveying means</b>
<b>A43D 119/00</b>	<b>Driving or controlling mechanisms of shoe machines; Frames for shoe machines</b>
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<b>A43D 2200/00</b>	<b>Machines or methods characterised by special features</b>
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
<b>A43D 999/00</b>	<b>Subject matter not provided for in other groups of this subclass</b>