Cooperative Patent Classification

B PERFORMING OPERATIONS; TRANSPORTING

SHAPING

B25 HAND TOOLS; PORTABLE POWER-DRIVEN TOOLS; MANIPULATORS

B25C HAND-HELD NAILING OR STAPLING TOOLS; MANUALLY OPERATED PORTABLE STAPLING TOOLS (for shoemaking A43D)

NOTE
For the purposes of this subclass, the term "nail" is to be understood as including pin, bolt, and plug

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.

1/00 Hand-held nailing tools (hammers per se B25D; nailing machines B27F 7/02; Nail feeding devices
1/001 . (Nail feeding devices (B25C 1/184 takes precedence))
1/003 . . [for belts of nails)
1/005 . . [for rows of contiguous nails]
1/006 . . [for corrugated nails and marking tags]
1/008 . . [Safety devices]
1/02 . operated by manual power
1/04 . operated by fluid pressure (e.g. by air pressure)
1/041 . . [with fixed main cylinder]
1/042 . . [Main valve and main cylinder]
1/043 . . [Trigger valve and trigger mechanism]
1/044 . . [with movable main cylinder]
1/045 . . [main valve and main cylinder]
1/046 . . [Trigger valve and trigger mechanism]
1/047 . . [Mechanical details]
1/048 . . [Hydraulically operated]
1/06 . operated by electric power
1/08 . operated by combustion pressure
1/082 . . (generated by detonation of a pellet)
1/085 . . [trigger operated]
1/087 . . [operated by a hammer blow]
1/10 . generated by detonation of a cartridge
1/105 . . [Cartridge ejecting mechanisms and latch mechanisms]
1/12 . . acting directly on the bolt
1/123 . . [trigger operated]
1/126 . . [operated by a hammer blow]
1/14 . . acting on an intermediate plunger or anvil (pistols for slaughtering or stunning animals A22B 3/02)
1/143 . . [trigger operated]
1/146 . . [operated by a hammer blow]
1/16 . . Cartridges specially adapted for impact tools; Cartridge and bolts units (bolts per se F16B 19/14)
1/163 . . [Cartridges]
1/166 . . [Pellets]

1/18 . . . Details and accessories, e.g. splinter guards, spall minimisers
1/182 . . . . [Feeding devices]
1/184 . . . . [for nails]
1/186 . . . . [for cartridges or pellets]
1/188 . . . . [Arrangements at the forward end of the barrel, e.g. splinter guards, spall minimisers, safety arrangements, silencers, bolt retainers]

3/00 Portable devices for holding and guiding nails; Nail dispensers
3/002 . . [nail dispensers with provision for holding and guiding nails]
3/004 . . [the nail being hit by a hammer head]
3/006 . . [only for holding and guiding]
3/008 . . [the nail being hit by a hammer head]

5/00 Manually operated portable stapling tools; Hand-held power-operated stapling tools (clip clamping hand tools B25B 27/146; details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00; stapling machines B27F 7/17; Staple feeding devices therefor (staples F16B 15/00)

NOTE
In this group the following term is used with the meaning indicated:
- "stapling tools" covers tools for driving U-shaped loops, e.g. of metallic material, into a surface to fix an object thereto, or through layers of relatively thin material to hold them together, e.g. by clinching

5/02 . . with provision for bending the ends of the staples on to the work
5/0207 . . (Particular clinching mechanisms (B25C 5/0271 takes precedence))
5/0214 . . [Combined stapling and punching tools]
5/0221 . . [Stapling tools of the table model type, i.e. tools supported by a table or the work during operation]
5/0228 . . . [power-operated]
5/0235 . . . [manually operated having a plunger cooperating with an anvil (B25C 5/025 takes precedence)]
5/0242 . . . [having a pivoting upper leg and a leg provided with an anvil supported by the table or work]
5/025 . . . [the plunger being manually operated]
5/0257 . . . [without an anvil, e.g. using staples of particular shape bent during the stapling operation without the use of external clinching means]
5/0264 . . . [having pivoting clinching means for bending the staple ends]
5/0271 . . . [Clinching means therefor]
5/0278 . . . [having staple forming means]
5/0285 . . . [Hand-held stapling tools, e.g. manually operated, i.e. not resting on a working surface during operation]
5/0292 . . . [with the objects to be stapled together introduced perpendicularly to the longitudinal axis of the tool in an opening formed by an anvil and a plunger]
5/04 . . . with means for forming the staples in the tool
5/045 . . . [starting from performed staples]
5/06 . . . without provision for bending the ends of the staples on to the work
5/08 . . . with means for forming the staples in the tool
5/085 . . . [starting from performed staples]
5/10 . . . Driving means
5/11 . . . operated by manual {or foot} power
5/13 . . . operated by fluid pressure
5/15 . . . operated by electric power
5/16 . . . Staple-feeding devices {, e.g. with feeding means, supports for staples or accessories concerning feeding devices}
5/1603 . . . [for tools with provision for bending the ends of the staples or to the work]
5/1606 . . . [Feeding means]
5/161 . . . [employing a spring-loaded puller]
5/1613 . . . [with means for holding puller out of position during re-loading]
5/1617 . . . [employing a spring-loaded pusher]
5/162 . . . . . . . [with means for holding pusher out of position during re-loading]
5/1624 . . . [employing mechanical feeding means (B25C 5/161, B25C 5/1617 take precedence)]
5/1627 . . . [of incremental type]
5/1631 . . . [for feeding a chosen number of staples to the drive channel]
5/1634 . . . [employing gravity feed]
5/1637 . . . [Supports for the staples being fed]
5/1641 . . . [allowing the feeding of a variety of elements]
5/1644 . . . [of different shapes]
5/1648 . . . . . . . [by use or interchangeable supports]
5/1651 . . . . . . . (of T-shaped staples or nails)
5/1655 . . . . . . . [by use of interchangeable supports]
5/1658 . . . . . . . [of different sizes of staples]
5/1662 . . . . . . . [by use of interchangeable supports]
5/1665 . . . [with means for preventing jamming or aiding unjamming within the drive channel]
5/1668 . . . [preventing jamming by retaining the next staple]
5/1672 . . . [for multiple-stroke driving]
5/1675 . . . [unjamming by movement of the feeding device]
5/1679 . . . [comprising storing arrangements for a plurality of staple strips]
5/1682 . . . [on a rotating carousel]
5/1686 . . . [using pre-loaded cassettes]
5/1689 . . . [with means for indicating the number of staples remaining]
5/1693 . . . [co-ordinating with the feed of a second item]
5/1696 . . . [Staple support displaceable relative to the tool to allow re-loading]

7/00 Accessories for nailing or stapling tools, e.g.
supports (for tools operated by detonation of a cartridge B25C 1/18)

9/00 Nail punches

11/00 Nail, spike, and staple extractors (incorporated in hammers B25D 1/00)
11/02 . . . . . Pincers (joints therefor B25B 7/06)

13/00 Nail straightening devices