

87 Tools and implements, including pneumatic tools, of general application

87a Tools and implements for fastening, joining, loosening and holding

87b Tools and implements for working on materials and changing their form, deforming tools

87c Combination tools, universal tools

87d Handle fastenings for tools and implements of general use

87a Tools and implements for fastening, joining, loosening and holding, e.g. bench and hand vices

Vices

87a-1/01 Parallel vices in general

87a-1/02 Rapidly tightened parallel vices

87a-2 Pivoted jaw-type vices

87a-3 Pipe vices and the like

87a-4 Hand vices, clamps and gripping devices in general (38c-6; 38e-8)

87a-5 Elements of vices and the like

Wrenches

87a-6 Wrenches with fixed jaws, also with obliquely adjustable handles

87a-7 Wrenches with jaws adjustable by means of screw

87a-8 Wrenches with jaws held in position by means of pawls

87a-9 Wrenches with jaws held in position by friction

87a-10 Wrenches with various adjusting mechanism

87a-11 Wrenches for special purposes

87a-12 Wrenches with ratchet mechanisms for turning the nut

87a-13 Wrenches with miscellaneous nut turning means

Pipe wrenches

87a-14 Pipe wrenches with gripping jaws (pipe cutters 7c-19)

87a-15 Pipe wrenches with chains, belts, and the like

Miscellaneous tools

87a-16 Pliers for general use

87a-17 Nail pullers (railway spike pullers 19a-28/14, 19a-29/26)

87a-18 Nailing devices and nail holders (38d-5; 71c-38 – 71c-46)

87a-19 Screw drivers

87a-20 Wedge pullers

87a-21 Wire tensioning devices and wire clamps (21c-8/01; 21c-21; 37d-36/03; 47d-12)

87a-22 Miscellaneous hand tools, work benches (67a-32/01) and blocks, crate and barrel openers, tools for forcing apart, hand tools for loosening, taking apart, and assembling machine elements, etc.

87b Tools and implements for working on materials and changing their form, deforming tools

87b-1 Hand hammers and picks

- Pneumatic hand tools for general use, especially compressed-air hand hammers (5b; 80d; spike testers 87a-17)
- 87b-2/01 Full slide-valve controls comprising one slide valve
 - 87b-2/02 Sliding-sleeve valve controls
 - 87b-2/03 Rotary slide valve controls
 - 87b-2/04 Slide valve controls comprising several slide valves
 - 87b-2/05 Valve controls
 - 87b-2/06 Valve controls comprising several valves
 - 87b-2/07 Contact controls
 - 87b-2/08 Valves in the body of the hammer ram
 - 87b-2/09 Control by means of valve-less pistons
 - 87b-2/10 Differential pistons with valves
 - 87b-2/11 Adjustment of the ramming force, number of blows and controlled stroke length
 - 87b-2/12 Recoil reduction
 - 87b-2/13 Miscellaneous drives, pulsating air, internal-combustion engines
 - 87b-2/14 Manual starters
 - 87b-2/15 Self-starters
 - 87b-2/16 Lubricating devices
 - 87b-2/17 Carrying frames
 - 87b-2/13 Tools and tool holders
 - 87b-2/19 Safety grips and the like
 - 87b-2/20 Miscellaneous
- Mechanically and electrically driven hand hammers (21d1-23; 13e-4/01; 13e-4/02)
- 87b-3/01 Spring hammers with momentum screw
 - 87b-3/02 Spring hammers with crank drive
 - 87b-3/03 Centrifugal hammers and percussion brushes
 - 87b-3/04 Spring hammers with lifter cam, miscellaneous
 - 87b-3/05 Electric hammers
- 87b-4 Cutting pliers
 - 87b-5 Sealing pliers and devices for the production of lead seals (production of seal blanks 7c-10; 7c-47; 7f; 31c-25; 39a; 49i; 54e; 81b-1; 81c-16)
 - 87b-6 Miscellaneous tools and implements
- 87c Combination tools, universal tools**
- 87c (no subdivision)
- 87d Handle fastenings for tools and implements of general use (for brooms and the like 9c)**
- 87d-1/01 Handle fastenings for hammers and the like, general
 - 87d-1/02 Handle fastenings by means of wedges or wedge-like devices
 - 87d-1/03 Handles as such
 - 87d-2 File handles and the like
 - 87d-3/01 Tool holders (for dentistry tools 30b-2)
 - 87d-3/02 Tool cases and racks