

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

### B25 HAND TOOLS; PORTABLE POWER-DRIVEN TOOLS; HANDLES FOR HAND IMPLEMENTS; WORKSHOP EQUIPMENT; MANIPULATORS

**B25D PERCUSSIVE TOOLS** (percussive machines for forging B21J; hand-held drilling machines, in general B23B 45/00, for wood B27C 3/08; percussion drilling of earth or rock E21B) [2]

#### Subclass index

TOOLS DISTINGUISHED BY OPERATIVE METHOD.....9/00-16/00  
HAMMERS, CHISELS, PUNCHES, OR PICKS.....1/00-7/00  
DETAILS OR ACCESSORIES.....17/00

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- |   |   |  |
|---|---|--|
| <b>1/00 Hand hammers; Hammer heads of special shape or materials</b>  | 9/20  | • • • involving a tubular-type slide valve   |
| 1/02 • Inserts or attachments forming the striking part of hammer heads (B25D 1/08-B25D 1/14 take precedence) [5]   | 9/22  | • • • involving a rotary-type slide valve  |
| 1/04 • with provision for withdrawing or holding nails or spikes  | 9/24  | • • • involving a rocking-plate type valve   |
| 1/06 • • Magnetic holders [5]   | 9/26  | • • Control devices for adjusting the stroke of the piston or the force or frequency of impact thereof |
| 1/08 • having deformable heads (B25D 1/12 takes precedence) [5]   | <b>11/00 Portable percussive tools with electromotor drive</b><br>(centrifugal or rotary impact type B25D 15/00)  |  |
| 1/10 • having work protector surrounding faces (B25D 1/12 takes precedence) [5]   | 11/02 • in which the tool is connected to an impulse member   |  |
| 1/12 • having shock-absorbing means [5]   | 11/04 • in which the tool bit or anvil is hit by an impulse member  |  |
| 1/14 • having plural striking faces [5]   | 11/06 • Means for driving the impulse member  |  |
| 1/16 • having the impacting head in the form of a sleeve slidable on a shaft, e.g. hammers for driving a valve or draw-off tube into a barrel [5]   | 11/08 • • comprising a worm mechanism   |  |
| <b>3/00 Hand chisels</b> (mortise chisels B27G 17/08)   | 11/10 • • comprising a cam mechanism  |  |
| <b>5/00 Centre punches</b>  | 11/12 • • comprising a crank mechanism  |  |
| 5/02 • Automatic centre punches   | <b>13/00 Portable percussive tools with electromagnetic drive</b><br>(B25D 15/00 takes precedence)  |  |
| <b>7/00 Picks</b> (combined with other tools B25F)  | <b>15/00 Portable percussive tools using centrifugal or rotary impact elements</b>  |  |
| <b>9/00 Portable percussive tools with fluid-pressure drive, e.g. having several percussive tool bits operated simultaneously</b> (centrifugal or rotary impact type B25D 15/00; portable non-percussive drilling tools driven by fluid pressure or pneumatic power B23B 45/04) | 15/02 • in which the tool bit or anvil is hit by a rotary impulse member  |  |
| 9/02 • of the tool-carrier piston type, i.e. in which the tool is connected to an impulse member  | <b>16/00 Portable percussive machines with superimposed rotation</b> (portable drilling machines with superimposed percussive action B23B 45/16) [3]  |  |
| 9/04 • of the hammer piston type, i.e. in which the tool bit or anvil is hit by an impulse member   | <b>17/00 Details of, or accessories for, portable power-driven percussive tools</b> (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00) [4] |  |
| 9/06 • Means for driving the impulse member   | 17/02 • Percussive tool bits (drill bits for earth drilling E21B 10/00)   |  |
| 9/08 • • comprising a built-in air compressor   | 17/04 • Handles; Handle mountings   |  |
| 9/10 • • comprising a built-in internal-combustion engine   | 17/06 • Hammer pistons; Anvils  |  |
| 9/11 • • operated by combustion pressure generated by detonation of a cartridge   | 17/08 • Means for retaining and guiding the tool bit, e.g. chucks   |  |
| 9/12 • • comprising a built-in liquid motor   | 17/10 • Safety devices (in general F16P)  |  |
| 9/14 • Control devices for the reciprocating piston   | 17/11 • Arrangements of noise damping means (noise damping in general G10K 11/16) [3]   |  |
| 9/16 • • Valve arrangements therefor  | 17/12 • • of exhaust silencers [3]  |  |
| 9/18 • • • involving a piston-type slide valve  | 17/14 • Removing or laying dust (flushing boreholes while drilling earth or rock E21B 21/00)  |  |

**B25D**

- 17/16

- • by liquid
- 17/18

- • by exhausting dust-loaded air
- 17/20

- Devices for cleaning or cooling tool or work
- 17/22

- • using pressure fluid
- 17/24

- Damping the reaction force
- 17/26

- Lubricating (in general F16N)
- 17/28

- Supports; Devices for holding power-driven percussive tools in working position
- 17/30

- • Pillars and struts
- 17/32

- • Trolleys