B25B

TOOLS OR BENCH DEVICES NOT OTHERWISE PROVIDED FOR, FOR FASTENING, CONNECTING, DISENGAGING OR HOLDING

Definition statement

This place covers:

• Vices
• Hand vices; Pin vices
• Clamps
• Pliers; gripping tools with jaws on pivoted limbs
• Hand-held gripping tools other than of the pliers type
• Work holders, e.g. magnetic work holders, vacuum work holders
• Spanners; Wrenches
• Screwdrivers
• Hand-driven gear-operated wrenches or screwdrivers
• Impact wrenches or screwdrivers
• Portable power-driven screw or nut setting or loosening tools
• Attachments for drilling apparatus for screw or nut setting or loosening
• Details of, or accessories for, spanners, wrenches, screwdrivers
• Implements for fastening, connecting or tensioning of wire or strip
• Hand tools, specially adapted for fitting together or separating parts or objects
• whether or not involving some deformation
• Portable power-driven joining or separation tools
• Hand tools for applying fasteners other than screws, bolts, nuts or nails

Relationships with other classification places

This subclass is to be understood as covering those hand tools for fastening, connecting, disengaging, or holding which are not provided for in another subclass such as B25C (nailing or stapling tools), B25D (percussive tools like hammers) or in an application class such as B65B (packaging) or B21F (working of wire)

Special rules of classification

In B25B 5/00 are also classified clamps for mechanically clamping work-pieces on machine tool tables, even though they are not hand tools. B25B 5/00 takes precedence before B23Q 3/06 (Work-clamping means).

In B25B 11/00 also tables, like magnetic tables and vacuum tables are classified, even though they are not hand tools.

For more detailed information about the main groups of B25B check the sheets of these main groups.

B25B 1/00

Vices (specially adapted for tying flies for angling A01K 97/28; specially adapted for machine tools B23Q 3/00 (; rope or cable splicing vices D07B 7/162))

Definition statement

This place covers:

• Vices with sliding jaws
• Vices with pivoted jaws
• Arrangements for positively actuating jaws
• Arrangements for turning or tilting vices
• Details of the vices, e.g. jaws of special shape, slideways

Relationships with other classification places
B25B 1/00 deals with vices per se and details of vices. The function and functioning of vices in the context of machine tools as part of the machine tools is classified in B23Q 3/066.

References
Application-oriented references
Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Vices for tying flies for angling</th>
<th>A01K 97/28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rope or cable splicing vices</td>
<td>D07B 7/162</td>
</tr>
</tbody>
</table>

Special rules of classification
Vices for machine tool tables are classified in B25B 1/00 as far as the vice itself or details thereof are concerned. In that case B25B 1/00 takes precedence over B23Q 3/066.

The function and functioning of vices for machine tools in the context of the machine tool as part of the machine tool is classified in B23Q 3/066.

B25B 1/2436
{around a vertical axis (B25B 1/2447 takes precedence)}

References
Limiting references
This place does not cover:

| Jaw being pivotable around an axis to put one of the jaw faces in a position opposite to a second jaw | B25B 1/2447 |

B25B 1/2442
{around a horizontal axis (B25B 1/2447 takes precedence)}

References
Limiting references
This place does not cover:

| Jaw being pivotable around an axis to put one of the jaw faces in a position opposite to a second jaw | B25B 1/2447 |
B25B 5/00

Clamps (for holding or positioning work for welding, soldering, or cutting by applying heat locally B23K 37/04)

Definition statement

This place covers:

This group covers:
- Combination of clamps
- Supporting devices for clamps
- Clamps with sliding jaws
- Clamps with pivoted jaws
- Arrangements for positively actuating jaws
- Clamps for work of special profile
- Details of the clamps, e.g. jaws, jaw attachments

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>References</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chucks</td>
<td>B25B 31/00</td>
</tr>
<tr>
<td>Clamps for holding or positioning work for welding, soldering, or cutting by applying heat locally</td>
<td>B23K 37/04</td>
</tr>
<tr>
<td>Clamps for turbine blades</td>
<td>B23Q 3/063</td>
</tr>
<tr>
<td>Clamping by using adhesive means</td>
<td>B23Q 3/084</td>
</tr>
<tr>
<td>Clamping by using a solidifying liquid, e.g. with freezing, setting or hardening means</td>
<td>B23Q 3/086</td>
</tr>
<tr>
<td>Gripping heads in robots</td>
<td>B25J 15/00</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>References</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chucks</td>
<td>B23B 31/00</td>
</tr>
<tr>
<td>Chucks where the gripping means is a deformable sleeve</td>
<td>B23B 31/305</td>
</tr>
<tr>
<td>Means for securing sliding members using a hydraulically controlled membrane in machine tools</td>
<td>B23Q 1/287</td>
</tr>
</tbody>
</table>

Special rules of classification

In B25B 5/00 are also classified clamps for mechanically clamping work-pieces on machine tool tables as far as the clamps themselves or details thereof are concerned, even though these clamps are not hand tools. In this case B25B 5/00 takes precedence over B23Q 3/06 (Work-clamping means).

The function and functioning of clamps in the context of the machine tool as part of the machine tool is classified in B23Q.
B25B 5/061

{with fluid drive (B25B 5/087, B25B 5/122 take precedence)}

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid-driven clamps using cams</td>
<td>B25B 5/087</td>
</tr>
<tr>
<td>Fluid-driven clamps using toggle levers</td>
<td>B25B 5/122</td>
</tr>
</tbody>
</table>

B25B 7/00

Pliers; Other hand-held gripping tools with jaws on pivoted limbs; Details applicable generally to pivoted-limb hand tools (implements for fastening, connecting, or tensioning wire or strip B25B 25/00; adapted for other fitting or separating purposes B25B 27/00; for marking animals A01K 11/00; dentists’ forceps A61C 3/00; bending wire eyes B21F 1/06; hand-held metal-shearing or metal-cutting devices B23D 29/00; hand cutting tools B26B; for punching or perforating B26F 1/36; devices for securing ends of binding material in bundling machines B65B 13/24; specially designed for watch-making or comparable work G04D 1/00)

Definition statement

This place covers:

- Pliers construction in general
- Jaws
- Joints
- Pliers involving special transmission means between the handles and the jaws
- Locking means for pliers
- Adjusting means for the operating arms
- Pliers for sealing
- Pliers provided with auxiliary tool elements, e.g. cutting edges, nail extractors

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implements for fastening, connecting, or tensioning wire or strip</td>
<td>B25B 25/00</td>
</tr>
<tr>
<td>Pliers for assambling or disassembling purposes</td>
<td>B25B 27/00</td>
</tr>
<tr>
<td>Pliers for marking animals</td>
<td>A01K 11/00</td>
</tr>
<tr>
<td>Surgical forceps</td>
<td>A61B 17/28</td>
</tr>
<tr>
<td>Dentist forceps</td>
<td>A61C 3/00</td>
</tr>
<tr>
<td>Pliers for bending wire eyes</td>
<td>B21F 1/06</td>
</tr>
<tr>
<td>Hand-held metal-shearing or metal-cutting devices</td>
<td>B23D 29/00</td>
</tr>
<tr>
<td>Hand-held cutting tools</td>
<td>B26B</td>
</tr>
</tbody>
</table>
Pliers for punching or perforating  \[B26F \, 1/36\]
Pliers for securing ends of binding material  \[B65B \, 13/24\]
Pliers specially designed for watch-making or comparable work  \[G04D \, 1/00\]
Pliers for removing insulation or armouring from electrical cables  \[H02G \, 1/12\]

**B25B 7/14**

Locking means \{(B25B 7/123 takes precedence)\}

**References**

**Limiting references**

This place does not cover:

Self-locking toggle lever pliers  \[B25B \, 7/123\]

**B25B 9/00**

Hand-held gripping tools other than those covered by group B25B 7/00 (wrenches B25B 13/00; specially adapted for watchmakers’ or like use G04D)

**Definition statement**

This place covers:

• Gripping tools with sliding or pivotal connections
• Gripping tools without sliding or pivotal connections, e.g. tweezers

**References**

**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Tool Type</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical forceps</td>
<td>A61B 17/28</td>
</tr>
<tr>
<td>Dentist forceps</td>
<td>A61C 3/00</td>
</tr>
<tr>
<td>Gripping heads in robots</td>
<td>B25J 15/00</td>
</tr>
<tr>
<td>Load carriers</td>
<td>B65G 7/12</td>
</tr>
<tr>
<td>Hand-held implements for removing litter</td>
<td>E01H 1/12</td>
</tr>
<tr>
<td>Hand-held implements picking up excrements</td>
<td>E01H 1/1206</td>
</tr>
<tr>
<td>Gripping tools specially adapted for watchmakers</td>
<td>G04D 1/00</td>
</tr>
<tr>
<td>Gripping tools for fluorescent lamps</td>
<td>H01J 9/006</td>
</tr>
<tr>
<td>Gripping tools for light bulbs</td>
<td>H01K 3/32</td>
</tr>
</tbody>
</table>
B25B 11/00

Work holders not covered by any preceding group in the subclass, e.g. magnetic work holders, vacuum work holders (for holding or positioning work for welding, soldering, or cutting by applying heat locally B23K 37/04; specially adapted to machine tools B23Q 3/00)

Definition statement

This place covers:

- Work holders
- Magnetic work holders
- Vacuum work holders

Relationships with other classification places

Magnetic means for holding work-pieces on tables of tool machines are partially classified as well in B23Q 3/154, B23Q 3/1546, B23Q 3/1546 as in B25B 11/005

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding or positioning work for welding, soldering, or cutting by applying</td>
<td>B23K 37/04</td>
</tr>
<tr>
<td>heat locally</td>
<td></td>
</tr>
<tr>
<td>Holding work-pieces on machine tool tables by magnetic means</td>
<td>B23Q 3/154</td>
</tr>
<tr>
<td>Robot vacuum gripping head</td>
<td>B25J 15/0616</td>
</tr>
<tr>
<td>Holding work-pieces by suction in cutting machines</td>
<td>B26D 7/018</td>
</tr>
<tr>
<td>Vacuum material handling devices associated with conveyors</td>
<td>B65G 47/91</td>
</tr>
<tr>
<td>Suction grippers for separating articles from a pile</td>
<td>B65H 3/0808</td>
</tr>
<tr>
<td>Load-engaging elements for lifting by magnetic means</td>
<td>B66C 1/04</td>
</tr>
<tr>
<td>Load-engaging elements for lifting by electro-magnetic means</td>
<td>B66C 1/06</td>
</tr>
<tr>
<td>Implements for mounting doors</td>
<td>E04F 21/0007</td>
</tr>
<tr>
<td>Portable devices for holding doors</td>
<td>E05C 17/54</td>
</tr>
<tr>
<td>Electromagnets for lifting handling or transport</td>
<td>H01F 7/206</td>
</tr>
<tr>
<td>Holding semiconductors by vacuum</td>
<td>H01L 21/6838</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signs, plates, panels or boards being secured to a surface by magnetic</td>
<td>B25C 1/003</td>
</tr>
<tr>
<td>means</td>
<td></td>
</tr>
</tbody>
</table>

Special rules of classification

In B25B 11/00 also tables, like magnetic tables and vacuum tables are classified, even though they are not hand tools.
B25B 13/00

Spanners; Wrenches (hand-driven gear-operated B25B 17/00; impact wrenches B25B 19/00; portable power-driven B25B 21/00; spanners or wrenches specially adapted for osteosynthesis A61B 17/8875; machines for fitting together or separating metal parts B23P 19/00; for mounting or dismounting wheels B60B 29/003)

Definition statement

This place covers:

• Cross wrenches
• Wrenches with rigid jaws
• Wrenches with adjustable jaws
• Wrenches of the chuck type
• Wrenches of the ratchet type, for providing a free return stroke of the handle
• Wrenches for special purposes
• Wrenches for operating on work of special profile, e.g. pipes
• Chain or strap wrenches
• Spanner sets
• Jaw attachments

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Wrenches or spanners specially adapted for osteosynthesis</th>
<th>A61B 17/8875</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanners and wrenches for mounting and dismounting wheels</td>
<td>B60B 29/003</td>
</tr>
<tr>
<td>Devices for removing threaded caps of containers</td>
<td>B67B 7/18</td>
</tr>
<tr>
<td>Tools for removing threaded caps from containers by use of a flexible loop gripping the cap</td>
<td>B67B 7/184</td>
</tr>
<tr>
<td>Wrenches in earth drilling</td>
<td>E21B 19/161</td>
</tr>
</tbody>
</table>

B25B 13/02

with rigid jaws (B25B 13/46, B25B 13/48 take precedence)

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Ratchet wrenches</th>
<th>B25B 13/46</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrenches or sockets for special purposes</td>
<td>B25B 13/48</td>
</tr>
</tbody>
</table>
B25B 13/10

with adjustable jaws (B25B 13/46, B25B 13/48 {B25B 13/5041} take precedence)

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Ratchet wrenches</th>
<th>B25B 13/46</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanners or wrenches for special purposes</td>
<td>B25B 13/48</td>
</tr>
<tr>
<td>Wrenches for pipes with adjustable jaws</td>
<td>B25B 13/5041</td>
</tr>
</tbody>
</table>

B25B 13/5008

{for operating on pipes or cylindrical objects (B25B 13/52 takes precedence)}

References

Limiting references

This place does not cover:

| Chain or strap wrenches                 | B25B 13/52 |

B25B 13/54

Internal grip wrenches {(B25B 13/5083 takes precedence)}

References

Limiting references

This place does not cover:

| Spanners and wrenches for internally gripping pipes | B25B 13/5083 |

B25B 15/00

Screwdrivers (hand-driven gear-operated B25B 17/00; impact screwdrivers B25B 19/00; portable power-driven B25B 21/00 {; screwdrivers specially adapted for osteosynthesis A61B 17/8875})

Definition statement

This place covers:

- Screwdrivers characterised by material or shape of the tool bit
- Screwdrivers operated by rotating the handle
- Screwdrivers operated by axial movement of the handle
References

**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Application</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screwdrivers specially adapted for osteosynthesis</td>
<td>A61B 17/8875</td>
</tr>
<tr>
<td>Screwdrivers specially adapted for watchmakers</td>
<td>G04D 1/0028</td>
</tr>
</tbody>
</table>

**B25B 17/00**

**Hand-driven gear-operated wrenches or screwdrivers (ratchet-operated B25B 13/46 (B25B 13/467), B25B 15/04; {for mounting or dismounting wheels B60B 29/005})**

**Definition statement**

*This place covers:*
- Hand-driven gear-operated wrenches or screwdrivers
- Hand-driven gear-operated wrenches or screwdrivers providing for torque amplification

<table>
<thead>
<tr>
<th>Tool</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear-operated ratchet wrenches</td>
<td>B25B 13/467</td>
</tr>
<tr>
<td>Ratchet screwdrivers</td>
<td>B25B 15/04</td>
</tr>
</tbody>
</table>

**B25B 17/02**

**providing for torque amplification**

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Tool</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrenches with torque amplification for mounting or dismounting wheels</td>
<td>B60B 29/005</td>
</tr>
</tbody>
</table>

**B25B 19/00**

**Impact wrenches or screwdrivers (portable power-driven B25B 21/02)**

**Definition statement**

*This place covers:*

Impact wrenches and screwdrivers that are not power-driven
B25B 21/00

Portable power-driven screw or nut setting or loosening tools; (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00; {for mounting or dismounting wheels B60B 29/006}; Attachments for drilling apparatus serving the same purpose (machines B23P 19/06)

Definition statement

This place covers:

- Portable power-driven screw or nut setting or loosening tools
- Power-driven screw or nut setting or loosening tools for combined nut setting and crimping
- Power-driven screw or nut setting or loosening tools for special purposes
- Power-driven screw or nut setting or loosening tools of the ratchet type
- Attachments for drilling apparatus for screw or nut setting or loosening
- Power-driven screw or nut setting or loosening tools with automatic change-over from high speed-low torque mode to low speed-high torque mode
- Power-driven screw or nut setting or loosening tools with means for imparting impact to screwdriver blade or nut socket

Relationships with other classification places

Details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed are classified in B25F 5/00

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-spindle power-driven screw or nut setting or loosening</td>
<td>B23P 19/069</td>
</tr>
<tr>
<td>Power-operated devices for mounting or dismounting wheels</td>
<td>B60B 29/006</td>
</tr>
<tr>
<td>Power-operated devices for removing threaded caps of containers</td>
<td>B67B 7/18</td>
</tr>
<tr>
<td>Powered wrenches in earth drilling</td>
<td>E21B 19/161</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw or nut setting or loosening machines</td>
<td>B23P 19/06</td>
</tr>
<tr>
<td>Details or components, e.g. casings, bodies, of portable power-driven tools</td>
<td>B25F 5/00</td>
</tr>
</tbody>
</table>
B25B 23/00
Details of, or accessories for, spanners, wrenches, screwdrivers (bolt tensioners B25B 29/02)

Definition statement

This place covers:
- Connections or joints between tool parts
- Screw guiding means
- Socket or nut ejector means
- Means for adjusting screwing depth
- Abutment for screws or nuts
- Reaction arms
- Counter holding devices
- Tools for placing nut or screw lock wires
- Arrangements for handling screws or nuts
- Arrangement of torque limiters or torque indicators in wrenches or screwdrivers
- Handles
- Devices for illuminating the head of the screw or the nut

Relationships with other classification places

Details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed are classified in B25F 5/00. Even though there is a group B25B 23/16 for handles, details of handles for hand-driven screwdrivers and wrenches are classified in B25G 1/00 and details of handles for power-driven screwdrivers and wrenches are classified in B25F 5/02. Angular adjustment means between tool head and handle of a hand-driven fastening tool are classified in B25B 23/0028 as well as in B25G 1/063.

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

| Details of handles of power-driven screwdrivers and wrenches | B25F 5/02 |
| Details of handles of hand-driven screwdrivers and wrenches | B25G 1/00 |
| Device for determining value of torque or twisting moment for tightening a nut or screw per se, when not in connection with the fastening process itself | G01L 5/24 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Feeding or holding elements like screws or nuts in machines | B23P 19/00 |
| Screw or nut setting or loosening machines | B23P 19/06 |
| Torque limiting in screw or nut setting or loosening machines | B23P 19/065 |
| Arrangements in machine tools for improving direct observation of the working space, e.g. using mirrors or lamps | B23Q 17/2404 |
| Nail feeding devices for belts of nails | B25C 1/003 |
Details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed | B25F 5/00
---|---
Torque reaction bars for portable rotary tools other than fastening tools | B25F 5/025
Nails formed in integral series using disposable strips or discs per se | F16B17/08
Bolts, screws, or nuts formed in integral series using disposable strips or discs per se | F16B 27/00
Breaking-bolts per se | F16B 31/00
Lightening devices for hand tools in general | F21V 33/0084

### B25B 23/06

using built-in magazine (B25B 23/045 takes precedence)

**References**

**Limiting references**

This place does not cover:

Feeding screws or nuts using disposable strips or discs carrying the screws or nuts | B25B 23/045

### B25B 23/101

{for hand-driven screw-drivers (B25B 23/105 takes precedence)}

**References**

**Limiting references**

This place does not cover:

Gripping device for the fastening element, where the gripping device is an integral part of the driving element | B25B 23/105

### B25B 23/1425

{by electrical means}

**Definition statement**

This place covers:

Tightening of fasteners, wherein the torque is measured electrically, e.g. using ultrasound or strain gauge.

### B25B 25/00

**Implements for fastening, connecting or tensioning of wire or strip**

**Definition statement**

This place covers:

- Implements for tensioning of wire or strip
- Implements for applying wire clasps to hose couplings
References

Limiting references

This place does not cover:

| Tools for placing nut or screw lock wires | B25B 23/0092 |
| Turnbuckles and the like                   | F16G 11/12   |

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

| Bundling articles                        | B65B 13/00  |

B25B 27/00

Hand tools, specially adapted for fitting together or separating parts or objects whether or not involving some deformation, not otherwise provided for (machines for simply fitting together or separating metal parts or objects B23P 19/00)

Definition statement

This place covers:

• Hand tools adapted for fitting together or separating parts or objects
• Tools for fixing internally screw-threaded tubular fasteners
• Tools for bonding or debonding brake linings
• Tools for removing or installing seals
• Hand tools specially adapted for fitting together or separating parts of motor-vehicles
• Hand tools specially adapted for fitting together or separating parts of bicycles
• Tools for wheel weights
• Explosive-powered hand tools
• Tools moving along strips, e.g. decorating or sealing strips, to insert them in, or remove them from, grooves or profiles
• Tools for connecting objects by press fit or detaching same
• Tools for assembling objects other than by press fit or detaching same

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

| Tools or implements for repairing chains using metal-working operations | B21L 21/00      |
| Wrenches for mounting or dismounting wheels                              | B60B 29/003    |
| Mounting or dismounting tyre valves                                     | B60C 25/18     |
| Spring positioning or withdrawing for watchmakers or watch-repairers    | G04D 3/00      |
Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Machines for assembling or disassembling</th>
<th>B23P 19/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machines moving along strips, e.g. decorating or sealing strips, to insert them in, or remove them from, grooves or profiles</td>
<td>B23P 19/047</td>
</tr>
<tr>
<td>Machines for installing or removing seals, e.g. O-rings</td>
<td>B23P 19/084</td>
</tr>
<tr>
<td>Hammers having the impacting head in the form of a sleeve slidable on a shaft</td>
<td>B25D 1/16</td>
</tr>
<tr>
<td>Coil spring compressors</td>
<td>B60G 2206/921</td>
</tr>
<tr>
<td>Assembling sealing arrangements with vehicle parts</td>
<td>B60J 10/45</td>
</tr>
<tr>
<td>Assembly, disassembly, repair or servicing of endless-track systems</td>
<td>B62D 55/32</td>
</tr>
<tr>
<td>Hand-held apparatus for delivering pressure-sensitive adhesive tape</td>
<td>B65H 35/0026</td>
</tr>
<tr>
<td>Implements for finishing work on buildings, e.g. devices for fitting sealing strips or other finishing strips</td>
<td>E04F 21/00</td>
</tr>
<tr>
<td>Equipment for mounting belts, ropes or chains</td>
<td>F16H 7/24</td>
</tr>
<tr>
<td>Accessories for bringing two tubular members closer to each other</td>
<td>F16L 1/09</td>
</tr>
<tr>
<td>Auxiliary devices for flanged joints</td>
<td>F16L 23/003</td>
</tr>
<tr>
<td>Hand tools for crimping electric connectors</td>
<td>H01R 43/042</td>
</tr>
</tbody>
</table>

B25B 27/0028

{Tools for removing or installing seals (B25B 27/0092 takes precedence)}

References

Limiting references

This place does not cover:

| Tools moving along strips, e.g. decorating or sealing strips, to insert them in, or remove them from, grooves or profiles | B25B 27/0092 |

B25B 29/00

Accessories (specially for spanners, wrenches, screwdrivers B25B 23/00; tool boxes, tool positioning stands B25H)

Definition statement

This place covers:

- Accessories
- Bolt tensioners

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Bolt tensioners in machines | B23P 19/067 |
Screwed prestressed connection by means of liquid, grease, rubber, where the tensile strength is produced in the connection itself and not by a tool

B25B 31/00
Hand tools for applying fasteners (nailing or stapling tools B25C)

Definition statement
This place covers:
• Hand tools for applying fasteners other than screws, bolts, nuts or nails
• Hand tools for applying dowels
• Hand tools for temporarily connecting sheets before or during assembly operations

References
Application-oriented references
Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:
Attachments or adapters for portable power-driven percussive tools for placing dowels

Informative references
Attention is drawn to the following places, which may be of interest for search:
Attachments or adapters for portable power-driven percussive tools for placing dowels
Devices for applying fasteners, e.g. clips, to bundles of sheets

B25B 33/00
Hand tools not covered by any other group in this subclass

Definition statement
This place covers:
Hand tools not covered by any other group
Chuck keys