## CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

## **SHAPING**

# B23 MACHINE TOOLS; METAL-WORKING NOT OTHERWISE PROVIDED FOR (NOTES omitted)

# THREAD CUTTING; WORKING OF SCREWS, BOLT HEADS, OR NUTS, IN CONJUNCTION THEREWITH (making helical grooves by turning <u>B23B 5/48</u>, by milling <u>B23C 3/32</u>, by forging, pressing, or hammering <u>B21K 1/56</u>, by grinding <u>B24B 19/02</u>; arrangements for copying or controlling <u>B23Q</u>; thread-forming by corrugating tubes <u>B21D 15/04</u>, by rolling <u>B21H 3/02</u>)

### **NOTE**

The term "thread cutting" is to be understood as including the use of tools similar both in form and in manner of use to threadcutting tools, but without removing any material

### **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 |                                                                                                                                          | 1/064 |                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------|
| 1/00  | Thread cutting; Automatic machines specially designed therefor                                                                           | 1/264 | <ul><li> {comprising tap wrench features with a V slot}</li></ul>                                    |
| 1/02  | on an external or internal cylindrical or conical surface, e.g. on recesses (B23G 1/16, B23G 1/22, B23G 1/32, B23G 1/36 take precedence) | 1/265 | • • {Die and tap wrenches with a guiding part (lubricating and cooling devices therefor B23G 5/005)} |
| 1/04  | Machines with one working-spindle                                                                                                        | 1/266 | {Tap wrenches having a V slot (B23G 1/268                                                            |
| 1/06  | specially adapted for making conical screws,                                                                                             |       | takes precedence)}                                                                                   |
|       | e.g. wood-screws                                                                                                                         | 1/267 | • • • {Die wrenches having a cylindrical opening                                                     |
| 1/08  | Machines with a plurality of working spindles                                                                                            |       | and a clamping screw}                                                                                |
| 1/10  | • • • specially adapted for making conical screws, e.g. wood-screws                                                                      | 1/268 | • • • {comprising tap wrench features with a V slot}                                                 |
| 1/12  | Machines with a toothed cutter in the shape of a                                                                                         | 1/28  | with means for adjusting the threading tool                                                          |
|       | spur-gear or the like which is rotated to generate<br>the thread profile as the work rotates                                             | 1/30  | • • without means for adjusting the threading tool, e.g. with die-stocks (tap wrenches <u>B25B</u> ) |
| 1/14  | specially adapted for making conical screws,                                                                                             | 1/32  | • by milling                                                                                         |
| 1,1.  | e.g. wood-screws                                                                                                                         | 1/34  | with a cutting bit moving in a closed path                                                           |
| 1/16  | • in holes of workpieces by taps (B23G 1/26,<br>B23G 1/32, B23G 1/36 take precedence)                                                    | 1,0.  | arranged eccentrically with respect to the axis of<br>the rotating workpieces                        |
| 1/18  | . Machines with one working spindle                                                                                                      | 1/36  | <ul> <li>by grinding</li> </ul>                                                                      |
| 1/185 | • • { specially adapted for making nuts }                                                                                                | 1/38  | with grinding discs guided along the workpiece in                                                    |
| 1/20  | Machines with a plurality of working spindles                                                                                            |       | accordance with the pitch of the required thread                                                     |
| 1/205 | • • { specially adapted for making nuts }                                                                                                | 1/40  | with grinding discs guided radially to the                                                           |
| 1/22  | Machines specially designed for operating on pipes                                                                                       |       | workpiece                                                                                            |
|       | or tubes                                                                                                                                 | 1/42  | Centreless grinding                                                                                  |
| 1/225 | • • {automatically controlled}                                                                                                           | 1/44  | <ul> <li>Equipment or accessories specially designed for</li> </ul>                                  |
| 1/24  | portable                                                                                                                                 |       | machines or devices for thread cutting                                                               |
| 1/26  | • Manually-operated thread-cutting devices (features of the threading tool per se B23G 5/00)                                             | 1/46  | • • for holding the threading tools {( <u>B23B 31/083</u> takes precedence)}                         |
| 1/261 | • • {Die and tap wrenches (lubricating and cooling devices therefor <u>B23G 5/005</u> ; <u>B23G 1/265</u> takes                          | 1/465 | <ul> <li>. (comprising arrangements for reversing the rotation of the tool)</li> </ul>               |
|       | precedence)}                                                                                                                             | 1/48  | for guiding the threading tools                                                                      |
| 1/262 | • • • {Tap wrenches having a V slot (B23G 1/264                                                                                          | 1/50  | for cutting thread by successive operations                                                          |
|       | takes precedence)}                                                                                                                       | 1/52  | for operating on pipes or tubes                                                                      |
| 1/263 | • • • {Die wrenches having a cylindrical opening and a clamping screw}                                                                   |       |                                                                                                      |

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| 3/00           | Arrangements or accessories for enabling machine                                                  | 9/006    | • • {Slotting nuts}                                                                                    |
|----------------|---------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------|
|                | tools not specially designed only for thread cutting                                              | 9/007    | • • {Deburring nuts}                                                                                   |
|                | to be used for this purpose, e.g. arrangements for                                                | 9/008    | • • {Finishing nuts (B23G 9/007 takes precedence)}                                                     |
| 2/005          | reversing the working spindle                                                                     | 9/009    | • {Thread cleaning or repairing}                                                                       |
| 3/005          | • {for enabling presses to be used for thread cutting}                                            | 11/00    | Feeding or discharging mechanisms combined                                                             |
| 3/02           | • for withdrawing or resetting the threading tool                                                 | 11/00    | with, or arranged in, or specially adapted for use                                                     |
| 3/04           | <ul> <li>for repeatedly setting the threading tool in a predetermined working position</li> </ul> |          | in connection with, thread-cutting machines (for machines tools in general B23Q)                       |
| 3/06           | <ul> <li>for compensating inaccuracies in the pitch of the lead-screw</li> </ul>                  | 2200/00  |                                                                                                        |
| 3/08           | <ul> <li>for advancing or controlling the threading tool or</li> </ul>                            | 2200/00  | <ul><li>Details of threading tools</li><li>Tools in which the shank and the cutting part are</li></ul> |
|                | the work by templates, cams, or the like                                                          | 2200/02  | made from different materials or from separate                                                         |
| 3/10           | <ul> <li>for cutting thread of variable pitch</li> </ul>                                          |          | components                                                                                             |
| 3/12           | for using several adjacently-arranged threading                                                   | 2200/04  | Tools with negative cutting angles                                                                     |
|                | tools, e.g. using several chasers                                                                 | 2200/06  | Connections between parts of threading tools                                                           |
| 3/14           | for cutting thread of conical shape                                                               | 2200/062 | Brazed connections                                                                                     |
| 5/00           | Thread-cutting tools; Die-heads                                                                   | 2200/065 | Glued connections                                                                                      |
| 5/005          | • {with lubrication or cooling devices}                                                           | 2200/067 | Welded connections                                                                                     |
| 5/02           | <ul> <li>without means for adjustment</li> </ul>                                                  | 2200/08  | Threading tools with adjustable elements                                                               |
| 5/04           | . Dies                                                                                            | 2200/10  | Threading tools with adjustance crements     Threading tools comprising cutting inserts                |
| 5/043          | • • • { with guiding means }                                                                      | 2200/10  | Threading tools comprising eating inserts     Threading tools comprising inserts for thread            |
| 5/046          | {for conical thread}                                                                              | 2200/12  | forming                                                                                                |
| 5/040          | . Taps (chucks therefor <u>B23B 31/00</u> )                                                       | 2200/14  | Multifunctional threading tools                                                                        |
| 5/062          | • • • { with a guiding means part }                                                               | 2200/11  | Tools comprising means for deburring                                                                   |
| 5/064          | <ul><li> {with a guiding means part}</li><li> {with weakened shank portion}</li></ul>             | 2200/141 | Tools comprising means for forming threads by                                                          |
|                |                                                                                                   | 2200/142 | deformation                                                                                            |
| 5/066<br>5/068 | {with stops}                                                                                      | 2200/143 | Tools comprising means for drilling                                                                    |
| 5/068          | • • { with means for removing the broken tap}                                                     | 2200/144 | Tools comprising a die                                                                                 |
| 5/08           | • with means for adjustment                                                                       | 2200/145 | Tools comprising means for milling features other                                                      |
| 5/083          | • • {Adjustable dies}                                                                             | 2200/143 | than the thread                                                                                        |
| 5/086          | • • {with guiding means}                                                                          | 2200/146 | Tools comprising a tap                                                                                 |
| 5/10           | . Die-heads                                                                                       | 2200/147 | Tools comprising means for reaming                                                                     |
| 5/103          | • • • {with guiding means}                                                                        | 2200/11/ | Tools having means for countersinking                                                                  |
| 5/106          | • • {Collet-type die-heads}                                                                       | 2200/16  | Tools with cutting edges spaced unequally around                                                       |
| 5/12           | • • self-releasing                                                                                | 2200/10  | the circumference                                                                                      |
| 5/14           | Tapping-heads                                                                                     | 2200/18  | • Tools rotatable in both directions                                                                   |
| 5/16           | • • self-releasing                                                                                | 2200/20  | Tools having a brush                                                                                   |
| 5/18           | . Milling cutters                                                                                 | 2200/22  | • Tools having an end cap, e.g. for the distribution of                                                |
| 5/182          | • • {combined with other tools}                                                                   |          | cutting fluid                                                                                          |
| 5/184          | • • • {combined with drills ( <u>B23G 5/188</u> takes                                             | 2200/24  | Chip breakers                                                                                          |
| 5/106          | precedence)}                                                                                      | 2200/26  | • Coatings of tools                                                                                    |
| 5/186          | • • {combined with chamfering tools}                                                              | 2200/28  | Threading tools having a conical form                                                                  |
| 5/188          | {and with drills}                                                                                 | 2200/30  | • Cutting edges that are rounded in the cross-sectional                                                |
| 5/20           | • combined with other tools, e.g. drills {(B23G 5/182)                                            |          | view of the cutting edge                                                                               |
|                | takes precedence; screws which drill and tap <u>F16B 25/00</u> )}                                 | 2200/32  | Tools having a decreasing diameter in the direction of the shank from the tip                          |
| 7/00           | Forming thread by means of tools similar both                                                     | 2200/34  | Tools having an increasing diameter in the direction                                                   |
|                | in form and in manner of use to thread-cutting                                                    |          | of the shank from the tip (B23G 2200/28 takes                                                          |
|                | tools, but without removing any material (features                                                |          | precedence)                                                                                            |
|                | of machines or devices not specially adapted to the                                               | 2200/36  | Tools having provision to produce threads of more                                                      |
|                | particular mode of forming the thread <u>B23G 1/00</u> )                                          |          | than one type or size                                                                                  |
| 7/02           | • Tools for this purpose                                                                          | 2200/38  | Tools with shanks having a working end at each end                                                     |
| 9/00           | Working screws, bolt heads, or nuts in conjunction                                                |          | of the shank                                                                                           |
| - 1 - 0 - 0    | with thread cutting, e.g. slotting screw heads or                                                 | 2200/40  | Tools with variable or different helix angles                                                          |
|                | shanks, removing burrs from screw heads or                                                        | 2200/42  | Hollow tools                                                                                           |
|                | shanks; Finishing, e.g. polishing, any screw-thread                                               | 2200/44  | Taps with more than one threading section, the                                                         |
| 9/001          | • {Working screws}                                                                                |          | threading sections being axially spaced from one                                                       |
| 9/002          | • • {Slotting screw heads or shanks}                                                              |          | another                                                                                                |
| 9/003          | • • {Deburring screws}                                                                            | 2200/46  | Tools having a section of polygonal form, e.g. for                                                     |
| 9/004          | • • {Finishing screws (B23G 9/003 takes                                                           |          | the transmission of torque                                                                             |
|                | precedence)}                                                                                      | 2200/48  | Spiral grooves, i.e. spiral flutes                                                                     |
| 9/005          | • {Working nuts}                                                                                  |          |                                                                                                        |
|                |                                                                                                   |          |                                                                                                        |

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| 2200/50                                                                                                                                                                                            | • Tools in which the pitch of the teeth is a multiple of the pitch of the thread being produced                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2210/00                                                                                                                                                                                            | Details of threads produced                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2210/04                                                                                                                                                                                            | . Internal threads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2210/08                                                                                                                                                                                            | External threads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2210/12                                                                                                                                                                                            | Threads having a large diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2210/16                                                                                                                                                                                            | • Multiple start threads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2210/21                                                                                                                                                                                            | Threads in nuts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2210/24                                                                                                                                                                                            | Threads having a variable pitch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2210/28                                                                                                                                                                                            | Threads having a rounded profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2210/36                                                                                                                                                                                            | Threads having a square profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2210/41                                                                                                                                                                                            | Threads having a stepped profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2210/44                                                                                                                                                                                            | Threads having a trapezoidal profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2210/48                                                                                                                                                                                            | • Threads having a special form or profile not                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2210/10                                                                                                                                                                                            | otherwise provided for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2225/00                                                                                                                                                                                            | Materials of threading tools, workpieces or other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                    | structural elements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2225/04                                                                                                                                                                                            | Cubic boron nitride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2225/08                                                                                                                                                                                            | • Cermets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2225/12                                                                                                                                                                                            | . Chromium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2225/16                                                                                                                                                                                            | . Diamond                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2225/165                                                                                                                                                                                           | Polycrystalline diamond                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2225/24                                                                                                                                                                                            | • Elastomers, e.g. rubber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2225/28                                                                                                                                                                                            | Hard metal, i.e. cemented carbides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2225/32                                                                                                                                                                                            | High speed steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2225/36                                                                                                                                                                                            | Molybdenum disulphide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2225/40                                                                                                                                                                                            | Plastics not otherwise provided for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2225/44                                                                                                                                                                                            | Titanium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                    | • Ittalium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2225/48                                                                                                                                                                                            | Titanium aluminium nitride (Ti AIN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2225/48                                                                                                                                                                                            | Titanium aluminium nitride (TiAlN)  Titanium carbida                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2225/52                                                                                                                                                                                            | Titanium carbide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2225/52<br>2225/56                                                                                                                                                                                 | <ul><li>Titanium carbide</li><li>Titanium carbide nitride (TiCN)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2225/52<br>2225/56<br>2225/60                                                                                                                                                                      | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2225/52<br>2225/56                                                                                                                                                                                 | <ul><li>Titanium carbide</li><li>Titanium carbide nitride (TiCN)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2225/52<br>2225/56<br>2225/60                                                                                                                                                                      | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b>                                                                                                                                                    | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b><br>2240/04<br>2240/08                                                                                                                              | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b><br>2240/04                                                                                                                                         | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b><br>2240/04<br>2240/08<br>2240/12                                                                                                                   | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b><br>2240/04<br>2240/08<br>2240/12                                                                                                                   | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b><br>2240/04<br>2240/08<br>2240/12<br>2240/16                                                                                                        | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20                                                                                                    | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2225/52<br>2225/56<br>2225/60<br><b>2240/00</b><br>2240/04<br>2240/08<br>2240/12<br>2240/16                                                                                                        | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20                                                                                                    | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28                                                                              | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20                                                                                                    | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32                                                                              | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36                                                        | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32                                                                              | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally</li> </ul>                                                                                                                                                                                                                                                                                                               |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36                                                        | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> </ul>                                                                                                                                                                                                                                                                                    |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36<br>2240/40                                                        | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally</li> </ul>                                                                                                                                                                                                                                                                                                               |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36<br>2240/40                                                        | <ul> <li>Titanium carbide</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading tools of different sizes</li> </ul>                                                                                                                                                                                         |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36<br>2240/40<br>2240/44                                  | <ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul> Details of equipment for threading other than threading tools, details of the threading process <ul> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading</li> </ul>                                                                                                                                                                       |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36<br>2240/40<br>2240/44                                  | <ul> <li>Titanium carbide</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading tools of different sizes</li> <li>Protective sleeves for taps</li> <li>Sensors</li> </ul>                                                                                                                                   |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36<br>2240/40<br>2240/44                                  | <ul> <li>Titanium carbide</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading tools of different sizes</li> <li>Protective sleeves for taps</li> <li>Sensors</li> <li>Producing or refurbishing threads for spark plugs or</li> </ul>                                                                     |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/04<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/36<br>2240/40<br>2240/44                                  | <ul> <li>Titanium carbide</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading tools of different sizes</li> <li>Protective sleeves for taps</li> <li>Sensors</li> <li>Producing or refurbishing threads for spark plugs or glow plugs</li> </ul>                                                          |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/32<br>2240/40<br>2240/40<br>2240/46<br>2240/48<br>2240/52<br>2240/56 | <ul> <li>Titanium carbide</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading tools of different sizes</li> <li>Protective sleeves for taps</li> <li>Sensors</li> <li>Producing or refurbishing threads for spark plugs or</li> </ul>                                                                     |
| 2225/52<br>2225/56<br>2225/60<br>2240/00<br>2240/08<br>2240/12<br>2240/16<br>2240/20<br>2240/24<br>2240/28<br>2240/32<br>2240/32<br>2240/40<br>2240/40<br>2240/46<br>2240/48<br>2240/52<br>2240/56 | <ul> <li>Titanium carbide</li> <li>Titanium nitride</li> <li>Details of equipment for threading other than threading tools, details of the threading process</li> <li>Compensation of centrifugal force</li> <li>Evacuation of chips or fines</li> <li>Means for cooling or lubrication</li> <li>Equipment for producing threaded component with a rotating disc to hold the components</li> <li>Guiding devices with a pin affixable in a drilling chuck and with free rotation of the threading tool holder with respect to the pin</li> <li>Guides for threading tools having a V-groove for location on cylindrical workpieces</li> <li>Indication scales</li> <li>Threading devices designed to be mounted in the tailstock of a lathe</li> <li>Methods of threading not otherwise provided for</li> <li>Threading equipment having an integrally incorporated driving motor</li> <li>Tap or die wrenches with multiple locations for holding threading tools, e.g. for holding threading tools of different sizes</li> <li>Protective sleeves for taps</li> <li>Sensors</li> <li>Producing or refurbishing threads for spark plugs or glow plugs</li> <li>Thread whirling, i.e. production of a thread by</li> </ul> |

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