## 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	Thread cutting; Automatic machines specially	1/264	• • • • {comprising tap wrench features with a V
1 /00	designed therefor	1/265	slot}
1/02	on an external or internal cylindrical or conical	1/265	• • {Die and tap wrenches with a guiding part
	surface, e.g. on recesses ( <u>B23G 1/16</u> , <u>B23G 1/22</u> , <u>B23G 1/32</u> , <u>B23G 1/36</u> take precedence)		(lubricating and cooling devices therefor B23G 5/005)}
1/04		1/266	
	<ul> <li>. Machines with one working-spindle</li> <li> specially adapted for making conical screws,</li> </ul>	1/200	• • • {Tap wrenches having a V slot (B23G 1/268 takes precedence)}
1/06	e.g. wood-screws	1/267	• • • {Die wrenches having a cylindrical opening
1/08	. Machines with a plurality of working spindles	1/207	and a clamping screw}
		1/268	• • • {comprising tap wrench features with a V
1/10	<ul> <li>specially adapted for making conical screws,</li> <li>e.g. wood-screws</li> </ul>	1/200	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	1/30	without means for adjusting the threading tool,
	the thread profile as the work rotates		e.g. with die-stocks (tap wrenches <u>B25B</u> )
1/14	specially adapted for making conical screws,	1/32	• by milling
	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,		arranged eccentrically with respect to the axis of
	<u>B23G 1/32</u> , <u>B23G 1/36</u> take precedence)		the rotating workpieces
1/18	<ul> <li>Machines with one working spindle</li> </ul>	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	<ul> <li>Machines with a plurality of working spindles</li> </ul>		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	<ul> <li>Machines specially designed for operating on pipes</li> </ul>		workpiece
	or tubes	1/42	<ul> <li>Centreless grinding</li> </ul>
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	<ul> <li>Manually-operated thread-cutting devices (features</li> </ul>	1/46	• • for holding the threading tools $\{(\underline{B23B\ 31/083})$
	of the threading tool <u>per se</u> <u>B23G 5/00</u> )		takes precedence)}
1/261	• • {Die and tap wrenches (lubricating and cooling	1/465	• • • {comprising arrangements for reversing the
	devices therefor <u>B23G 5/005</u> ; <u>B23G 1/265</u> takes		rotation of the tool}
	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 tools not specially designed only for thread cutting to be used for this purpose, e.g. arrangements for reversing the working spindle	9/006 9/007 9/008	<ul> <li>• {Slotting nuts}</li> <li>• {Deburring nuts}</li> <li>• {Finishing nuts (B23G 9/007 takes precedence)}</li> </ul>
3/005	• {for enabling presses to be used for thread cutting}	9/009	• {Thread cleaning or repairing}
3/02	• for withdrawing or resetting the threading tool	11/00	Feeding or discharging mechanisms combined
3/04	for repeatedly setting the threading tool in a predetermined working position		with, or arranged in, or specially adapted for use in connection with, thread-cutting machines (for
3/06	for compensating inaccuracies in the pitch of the lead-screw		machines tools in general B23Q)
3/08	for advancing or controlling the threading tool or	2200/00	Details of threading tools
	the work by templates, cams, or the like	2200/02	Tools in which the shank and the cutting part are
3/10	for cutting thread of variable pitch		made from different materials or from separate
3/12	for using several adjacently-arranged threading	2200/04	<ul><li>components</li><li>Tools with negative cutting angles</li></ul>
	tools, e.g. using several chasers	2200/04	Connections between parts of threading tools
3/14	<ul> <li>for cutting thread of conical shape</li> </ul>	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
5/003	<ul> <li>• With Indirection of cooling devices}</li> <li>• without means for adjustment</li> </ul>	2200/087	Threading tools with adjustable elements
	_	2200/08	Threading tools with adjustable elements     Threading tools comprising cutting inserts
5/04	. Dies		
5/043	• • { with guiding means }	2200/12	Threading tools comprising inserts for thread forming
5/046	{for conical thread}	2200/14	Multifunctional threading tools
5/06	• Taps (chucks therefor <u>B23B 31/00</u> )		
5/062	• • • {with a guiding means part}	2200/141	. Tools comprising means for deburring
5/064	• • • {with weakened shank portion}	2200/142	Tools comprising means for forming threads by deformation
5/066	• • {with stops}	2200/143	Tools comprising means for drilling
5/068	• • { with means for removing the broken tap}	2200/143	Tools comprising means for drining     Tools comprising a die
5/08	• with means for adjustment	2200/144	Tools comprising a dic     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 a tap     Tools comprising means for reaming
5/103	• • • {with guiding means}	2200/147	Tools having means for countersinking
5/106	• • {Collet-type die-heads}	2200/148	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
7/02	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	2200/40	of the shank
	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  Tons with more than one threading section the
	shanks; Finishing, e.g. polishing, any screw-thread	2200/44	Taps with more than one threading section, the  threading sections being avielly speed from one
9/001	• {Working screws}		threading sections being axially spaced from one another
9/002	• • {Slotting screw heads or shanks}	2200/46	Tools having a section of polygonal form, e.g. for
9/003	• • {Deburring screws}	2200/40	the transmission of torque
9/004	• • {Finishing screws ( <u>B23G 9/003</u> takes	2200/48	Spiral grooves, i.e. spiral flutes
0.10.5 =	precedence)}	2200/40	• Spiral Brooves, i.e. spiral flaces
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 2225/56	<ul><li>Titanium carbide</li><li>Titanium carbide nitride (TiCN)</li></ul>
2225/52 2225/56 2225/60	<ul> <li>Titanium carbide</li> <li>Titanium carbide nitride (TiCN)</li> <li>Titanium nitride</li> </ul>
2225/52 2225/56	<ul><li>Titanium carbide</li><li>Titanium carbide nitride (TiCN)</li></ul>
2225/52 2225/56 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 2225/56 2225/60 <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 2225/56 2225/60 <b>2240/00</b> 2240/04 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>
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2225/52 2225/56 2225/60 <b>2240/00</b> 2240/04 2240/08 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 2225/56 2225/60 <b>2240/00</b> 2240/04 2240/08 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 2225/56 2225/60 <b>2240/00</b> 2240/04 2240/08 2240/12 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>
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2225/52 2225/56 2225/60 2240/00 2240/08 2240/12 2240/16 2240/20 2240/24 2240/28 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>
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2225/52 2225/56 2225/60 2240/00 2240/04 2240/08 2240/12 2240/16 2240/20 2240/24 2240/28 2240/32 2240/36 2240/40 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 2225/56 2225/60 2240/00 2240/04 2240/08 2240/12 2240/16 2240/20 2240/24 2240/28 2240/32 2240/36 2240/40 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>
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CPC - 2025.08