

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1165

DATE: JANUARY 1, 2022

PROJECT RP0363

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	B23B	51/0009, 51/0406, 51/0433, 51/0446, 51/046, 51/048
	B23B	2251/42, 2251/422, 2251/424, 2251/426, 2251/428, 2251/54
Symbols Deleted Pending Reclassification: (frozen (F))	B23B	51/0486, 51/0493
	B23B	2251/02, 2251/50, 2251/505
Symbols New:	B23B	51/0002, 51/0003, 51/00035, 51/0004, 51/0005, 51/0006, 51/0007, 51/0008, 51/0011, 51/0095, 51/011, 51/0411, 51/0417, 51/0461, 51/0467, 51/0468, 51/0469, 51/063, 51/066, 51/068, 51/0682, 51/0684, 51/0686, 51/1085, 51/109
	B23B	2250/121, 2250/122, 2250/123, 2250/124, 2250/18
	B23B	2251/047, 2251/048, 2251/0825, 2251/16, 2251/182, 2251/185, 2251/188, 2251/249, 2251/4011, 2251/4012, 2251/4062, 2251/448, 2251/51, 2251/74
Titles Changed:	B23B	51/00, 51/0473, 51/06, 51/106, 51/108
	B23B	2250/04, 2250/08, 2250/16
	B23B	2251/44, 2251/68
Indents Changed:	B23B	51/0413, 51/042, 51/0426, 51/044, 51/0453, 51/0466, 51/0473
Warnings New:	B23B	51/00, 51/0002, 51/0003, 51/00035, 51/0006, 51/0011, 51/0007, 51/0095, 51/011, 51/02, 51/04, 51/0411, 51/0417, 51/0426, 51/044, 51/0453, 51/0466, 51/0467, 51/0486, 51/0493, 51/06, 51/063, 51/068, 51/10, 51/107, 51/108, 51/1085, 51/109
	B23B	2250/00, 2250/12, 2250/121, 2250/122, 2250/123, 2250/124, 2250/18

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	B23B	2251/00, 2251/02, 2251/04, 2251/047, 2251/048, 2251/082, 2251/0825, 2251/14, 2251/16, 2251/18, 2251/182, 2251/185, 2251/188, 2251/24, 2251/249, 2251/40, 2251/4011, 2251/4012, 2251/406, 2251/4062, 2251/44, 2251/448, 2251/50, 2251/505, 2251/51, 2251/74
DEFINITIONS:		
Definitions Deleted:	B23B	51/0009, 51/0406
Definitions New:	B23B	51/0002, 51/0003, 51/00035, 51/0004, 51/0005, 51/0006, 51/0007, 51/0008, 51/0011, 51/0095, 51/011, 51/0411, 51/0413, 51/0417, 51/042, 51/0426, 51/044, 51/0453, 51/0467, 51/0468, 51/0469, 51/0473, 51/063, 51/066, 51/068, 51/0682, 51/0684, 51/0686, 51/101, 51/102, 51/104, 51/105, 51/106, 51/108, 51/1085, 51/109,
Definitions Modified:	B21K	5/04
	B23B	51/00, 51/04, 51/06, 51/10
	B23D	79/00
	B25D	Subclass
	B25D	17/00
	F16B	25/103
	H01M	50/00

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B23B – TURNING; BORING (arrangements for copying or controlling B23Q)

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
C	B23B 51/00	0	Tools for drilling machines	B23B 51/00, B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011, B23B 51/0095, B23B 51/011, B23B 2251/249
N	B23B 51/0002	1	{Drills with connected cutting heads, e.g. with non-exchangeable cutting heads; Drills with a single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position}	
N	B23B 51/0003	2	{with exchangeable heads or inserts}	
N	B23B 51/00035	3	{Spade drills}	
N	B23B 51/0004	3	{with cutting heads or inserts attached by screw means}	
N	B23B 51/0005	3	{with cutting heads or inserts attached by wedge means}	
N	B23B 51/0006	1	{Drills with cutting inserts (B23B 51/0002 takes precedence)}	
N	B23B 51/0007	2	{with exchangeable cutting insert}	
N	B23B 51/0008	3	{with indexable or reversible cutting inserts}	
D	B23B 51/0009	1	{Spade drills}	<administrative transfer to B23B 51/00035>
N	B23B 51/0011	2	{with radially inner and outer cutting inserts}	
U	B23B 51/009	1	{Stepped drills}	
N	B23B 51/0095	1	{Spade drills (B23B 51/00035 takes precedence)}	
N	B23B 51/011	1	{Micro drills}	
C	B23B 51/02	1	Twist drills	B23B 51/02, B23B 51/0002, B23B 51/0003,

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				B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011, B23B 51/011, B23B 2251/249,
C	B23B 51/04	1	{Drills} for trepanning	B23B 51/0007, B23B51/0008, B23B 51/04, B23B 51/0411, B23B 51/0417, B23B 51/0426, B23B 51/044, B23B 51/0461, B23B 51/0467, B23B 51/0468, B23B 51/0469
D	B23B 51/0406	2	{Drills with a tubular body (saw cylinders, e.g. having their cutting rim equipped with abrasive particles, for working stone or glass B28D 1/041)}	<administrative transfer to B23B 51/04>
N	B23B 51/0411	2	{with stepped tubular cutting bodies}	
M	B23B 51/0413	2	{with core-cutting-off devices}	
N	B23B 51/0417	2	{including chamfer or spot bore cutter}	
M	B23B 51/042	2	{with lubricating or cooling equipment}	
C	B23B 51/0426	2	{with centering devices}	B23B 51/0426, B23B51/0007, B23B 51/0008, B23B 51/0466
D	B23B 51/0433	4	{with exchangeable cutting inserts, e.g. able to be clamped}	<administrative transfer to B23B 51/0426>
C	B23B 51/044	2	{with core holding devices}	B23B 51/044, B23B51/0007, B23B51/0008, B23B 51/0466
D	B23B 51/0446	4	{with exchangeable cutting inserts, e.g. able to be clamped}	<administrative transfer to B23B 51/044>
C	B23B 51/0453	2	{with ejecting devices}	B23B 51/0453, B23B 51/0007, B23B 51/0008, B23B 51/0466
D	B23B 51/046	4	{with exchangeable cutting inserts, e.g. able to be clamped}	<administrative transfer to B23B 51/0453>
N	B23B 51/0461	2	{with exchangeable cutting heads or crowns}	
C	B23B 51/0466	2	{with exchangeable cutting inserts, e.g. able to be clamped}	B23B 51/0007, B23B51/0008, B23B 51/04, B23B 51/0411, B23B 51/0417, B23B 51/0466, B23B 51/0467,

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				B23B 51/0468, B23B 51/0469
N	B23B 51/0467	2	{Details of the tubular body sidewall}	
N	B23B 51/0468	3	{Internal grooves}	
N	B23B 51/0469	3	{Eccentric or non-circular}	
M	B23B 51/0473	2	{Details about the connection between the driven shaft and the tubular cutting part; Arbors}	
D	B23B 51/048	2	{with exchangeable cutting inserts, e.g. able to be clamped (B23B 51/0493 takes precedence)}	<administrative transfer to B23B 51/00>
F	B23B 51/0486	2	{with lubricating or cooling equipment (B23B 51/042 takes precedence)}	B23B 51/063, B23B 51/066
F	B23B 51/0493	3	{with exchangeable cutting inserts, e.g. able to be clamped}	B23B 51/0007, B23B 51/0008, B23B 51/06, B23B 51/063, B23B 51/066, B23B 51/068, B23B 51/0682, B23B 51/0684, B23B 51/0686
U	B23B 51/05	2	for cutting discs from sheet	
C	B23B 51/06	1	Drills with lubricating or cooling equipment {(B23B 51/042 takes precedence)}	B23B 51/06, B23B 51/063, B23B 51/066, B23B 51/068, B23B 51/0682, B23B 51/0684, B23B 51/0686
N	B23B 51/063	2	{Deep hole drills, e.g. ejector drills}	
N	B23B 51/066	3	{Gun drills}	
N	B23B 51/068	2	{Details of the lubricating or cooling channel}	
N	B23B 51/0682	3	{Coolant moves along outside of tool periphery toward cutting edges}	
N	B23B 51/0684	3	{Deflector or nozzle on drill to point the coolant in a desired direction}	
N	B23B 51/0686	3	{Cross-sectional shape of coolant hole}	
C	B23B 51/10	1	Bits for countersinking	B23B 51/10, B23B 51/109
M	B23B 51/106	2	{with a cutting edge adjustable along a direction oblique to the axis}	
C	B23B 51/107	2	{having a pilot}	B23B 51/107, B23B 51/109
C	B23B 51/108	2	{having a centering drill}	B23B 51/108, B23B 51/109, B23B 51/1085
N	B23B 51/1085	3	{countersink in the form of an attachment to the drill}	

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N	B23B 51/109	2	{Counterboring tools (B23B 51/102 takes precedence)}	
C	B23B 2250/00	0	Compensating adverse effects during turning, boring or drilling	B23B 2250/00, B23B 2250/18
M	B23B 2250/04	1	Balancing rotating components	
M	B23B 2250/08	1	Compensation of centrifugal force	
C	B23B 2250/12	1	Cooling and lubrication	B23B 2250/12, B23B 2250/121, B23B 2250/122, B23B 2250/123, B23B 2250/124
N	B23B 2250/121	2	Insert with coolant channels	
N	B23B 2250/122	2	Internal coolant reservoir	
N	B23B 2250/123	2	Meltable lubricant	
N	B23B 2250/124	2	Coolant trapping reservoir, e.g. recesses, pockets on external surface of tool	
M	B23B 2250/16	1	Damping of vibrations	
N	B23B 2250/18	1	Surface of tool modified by roughening, scratching, etc. to modify friction or other adverse effect	
C	B23B 2251/00	0	Details of tools for drilling machines	B23B 2251/00, B23B 2251/16, B23B 2251/51, B23B 2251/74
F	B23B 2251/02	1	Connections between shanks and removable cutting heads	B23B 51/0003, B23B 51/0004, B23B 51/0005
C	B23B 2251/04	1	Angles, e.g. cutting angles	B23B 2251/04, B23B 2251/047, B23B 2251/048
U	B23B 2251/046	3	Variable	
N	B23B 2251/047	2	Axial clearance angles	
N	B23B 2251/048	2	Radial clearance angles	
U	B23B 2251/08	1	Side or plan views of cutting edges	
C	B23B 2251/082	2	Curved cutting edges	B23B 2251/082, B23B 2251/0825
N	B23B 2251/0825	3	Curved in the axial direction	
C	B23B 2251/14	1	Configuration of the cutting part, i.e. the main cutting edges	B23B 2251/14, B23B 2251/047, B23B 2251/048
N	B23B 2251/16	1	New cutting edge by fracture, wear, or recycling	
C	B23B 2251/18	1	Configuration of the drill point	B23B 2251/18, B23B 2251/182, B23B 2251/185, B23B 2251/188
N	B23B 2251/182	2	Web thinning	
N	B23B 2251/185	2	Point angles less than 90 degrees	
N	B23B 2251/188	2	Variable point angles	
C	B23B 2251/24	1	Overall form of drilling tools	B23B 2251/24, B23B 2251/249
U	B23B 2251/248	2	Drills in which the outer surface is of special form	
N	B23B 2251/249	2	Drills in which the shank is flexible	

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C	B23B 2251/40	1	Flutes, i.e. chip conveying grooves	B23B 2251/40, B23B 2251/4011, B23B 2251/4012
N	B23B 2251/4011	2	Two flutes merge into one flute	
N	B23B 2251/4012	2	Flutes with sleeves	
C	B23B 2251/406	2	of special form not otherwise provided for	B23B 2251/406, B23B 2251/4062
N	B23B 2251/4062	3	Reverse flutes	
D	B23B 2251/42	1	Types of drill	<administrative transfer to B23B 51/00>
D	B23B 2251/422	2	Deep hole drills, e.g. ejector drills	<administrative transfer to B23B 51/063>
D	B23B 2251/424	3	Gun drills	<administrative transfer to B23B 51/066>
D	B23B 2251/426	2	Microdrills	<administrative transfer to B23B 51/011>
D	B23B 2251/428	2	Drills for cutting plugs of material	<administrative transfer to B23B 51/044>
C	B23B 2251/44	1	Margins, i.e. the narrow portion of the land which is not cut away to provide clearance on the circumferential surface	B23B 2251/44, B23B 2251/448
U	B23B 2251/446	2	Drills with variable margins	
N	B23B 2251/448	2	Drills with axial cutting edge extending along margin	
F	B23B 2251/50	1	Drilling tools comprising cutting inserts	B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011
F	B23B 2251/505	2	set at different heights	B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011
N	B23B 2251/51	1	Drills with means for feeding cable	
D	B23B 2251/54	1	Drilling tools having provision for drilling different diameters	<administrative transfer to B23B 51/0411>
U	B23B 2251/66	1	Drills with provision to be used as a screwdriver	
M	B23B 2251/68	1	Drills with provision for suction	
U	B23B 2251/70	1	Drills with vibration suppressing means	
N	B23B 2251/74	1	Drills for drilling a flat bottomed hole	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative

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transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning notice(s)

SUBCLASS B23B – TURNING; BORING (arrangements for copying or controlling B23Q)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 51/00		Group B23B 51/00 is impacted by reclassification into groups B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011, B23B 51/0095, B23B 51/011 and B23B 2251/249. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0002		Group B23B 51/0002 is incomplete pending reclassification of documents from groups B23B 51/00, B23B 51/02, B23B 2251/50 and B23B 2251/505. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0003		Groups B23B 51/0003, B23B 51/0004 and B23B 51/0005 are incomplete pending reclassification of documents from groups B23B 51/00, B23B 51/02, B23B 2251/02, B23B 2251/50 and B23B 2251/505. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/00035		Group B23B 51/00035 is incomplete pending reclassification of documents from groups B23B 51/00, B23B 2251/50 and B23B 2251/505. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0006		Group B23B 51/0006 is incomplete pending reclassification of documents from groups B23B 51/00, B23B 51/02, B23B 2251/50 and B23B 2251/505. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0011		Group B23B 51/0011 is incomplete pending reclassification of documents from groups B23B 51/00, B23B 51/02, B23B 2251/50 and B23B 2251/505. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 51/0007		Groups B23B 51/0007 and B23B 51/0008 are incomplete pending reclassification of documents from groups B23B 51/00, B23B 51/02, B23B 51/04, B23B 51/0426, B23B 51/044, B23B 51/0453, B23B 51/0466, B23B 51/0493, B23B 2251/50 and B23B 2251/505. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0095		Group B23B 51/0095 is incomplete pending reclassification of documents from group B23B 51/00. Groups B23B 51/00 and B23B 51/0095 should be considered in order to perform a complete search.
N	B23B 51/011		Group B23B 51/011 is incomplete pending reclassification of documents from groups B23B 51/00 and B23B 51/02. Groups B23B 51/00, B23B 51/02 and B23B 51/011 should be considered in order to perform a complete search.
N	B23B 51/02		Group B23B 51/02 is impacted by reclassification into groups B23B 51/0002, B23B 51/0003, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011, B23B 51/011 and B23B 2251/249. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/04		Group B23B 51/04 is incomplete pending reclassification of documents from group B23B 51/0466. Group B23B 51/04 is also impacted by reclassification into groups B23B 51/0007, B23B 51/0008, B23B 51/0411, B23B 51/0417, B23B 51/0426, B23B 51/044, B23B 51/0461, B23B 51/0467, B23B 51/0468 and B23B 51/0469. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0411		Group B23B 51/0411 is incomplete pending reclassification of documents from groups B23B 51/04 and B23B 51/0466. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 51/0417		Group B23B 51/0417 is incomplete pending reclassification of documents from groups B23B 51/04 and B23B 51/0466. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0426		Group B23B 51/0426 is incomplete pending reclassification of documents from groups B23B 51/04 and B23B 51/0466. Group B23B 51/0426 is also impacted by reclassification into groups B23B 51/0007, B23B 51/0008 and B23B 51/0466. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/044		Group B23B 51/044 is incomplete pending reclassification of documents from groups B23B 51/04 and B23B 51/0466. Group B23B 51/044 is also impacted by reclassification into groups B23B 51/0007, B23B 51/0008 and B23B 51/0466. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0453		Group B23B 51/0453 is impacted by reclassification into groups B23B 51/0007, B23B 51/0008 and B23B 51/0466. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0466		Group B23B 51/0466 is incomplete pending reclassification of documents from groups B23B 51/0426, B23B 51/044 and B23B 51/0453. Group B23B 51/0466 is also impacted by reclassification into groups B23B 51/0007, B23B 51/0008, B23B 51/04, B23B 51/0411, B23B 51/0417, B23B 51/0426, B23B 51/044, B23B 51/0467, B23B 51/0468 and B23B 51/0469. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/0467		Groups B23B 51/0467-B23B 51/0469 are incomplete pending reclassification of documents from groups B23B 51/04 and B23B 51/0466. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 51/0486		Group B23B 51/0486 is no longer used for the classification of documents as of January 1, 2022. The content of this group is being reclassified into groups B23B 51/063 and B23B 51/066. Groups B23B 51/0486, B23B 51/063 and B23B 51/066 should be considered in order to perform a complete search.
N	B23B 51/0493		Group B23B 51/0493 is no longer used for the classification of documents as of January 1, 2022. The content of this group is being reclassified into groups B23B 51/0007, B23B 51/0008, B23B 51/06, B23B 51/063, B23B 51/066, B23B 51/068, B23B 51/0682, B23B 51/0684 and B23B 51/0686. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/06		Group B23B 51/06 is incomplete pending reclassification of documents from group B23B 51/0493. Group B23B 51/06 is also impacted by reclassification into groups B23B 51/063, B23B 51/066, B23B 51/068, B23B 51/0682, B23B 51/0684 and B23B 51/0686. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/063		Groups B23B 51/063 and B23B 51/066 are incomplete pending reclassification of documents from groups B23B 51/0486, B23B 51/0493 and B23B 51/06. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/068		Groups B23B 51/068-B23B 51/0686 are incomplete pending reclassification of documents from groups B23B 51/0493 and B23B 51/06. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 51/10		Group B23B 51/10 is impacted by reclassification into group B23B 51/109. Groups B23B 51/10 and B23B 51/109 should be considered in order to perform a complete search.
N	B23B 51/107		Group B23B 51/107 is impacted by reclassification into group B23B 51/109. Groups B23B 51/107 and B23B 51/109 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 51/108		Group B23B 51/108 is impacted by reclassification into group B23B 51/1085. Groups B23B 51/108 and B23B 51/1085 should be considered in order to perform a complete search.
N	B23B 51/1085		Group B23B 51/1085 is incomplete pending reclassification of documents from group B23B 51/108. Groups B23B 51/108 and B23B 51/1085 should be considered in order to perform a complete search.
N	B23B 51/109		Group B23B 51/109 is incomplete pending reclassification of documents from groups B23B 51/10, B23B 51/107 and B23B 51/108. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2250/00		Group B23B 2250/00 is impacted by reclassification into group B23B 2250/18. Groups B23B 2250/00 and B23B 2250/18 should be considered in order to perform a complete search.
N	B23B 2250/12		Group B23B 2250/12 is impacted by reclassification into groups B23B 2250/121, B23B 2250/122, B23B 2250/123 and B23B 2250/124. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2250/121		Group B23B 2250/121 is incomplete pending reclassification of documents from group B23B 2250/12. Groups B23B 2250/12 and B23B 2250/121 should be considered in order to perform a complete search.
N	B23B 2250/122		Group B23B 2250/122 is incomplete pending reclassification of documents from group B23B 2250/12. Groups B23B 2250/12 and B23B 2250/122 should be considered in order to perform a complete search.
N	B23B 2250/123		Group B23B 2250/123 is incomplete pending reclassification of documents from group B23B 2250/12. Groups B23B 2250/12 and B23B 2250/123 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 2250/124		Group B23B 2250/124 is incomplete pending reclassification of documents from group B23B 2250/12. Groups B23B 2250/12 and B23B 2250/124 should be considered in order to perform a complete search.
N	B23B 2250/18		Group B23B 2250/18 is incomplete pending reclassification of documents from group B23B 2250/00. Groups B23B 2250/00 and B23B 2250/18 should be considered in order to perform a complete search.
N	B23B 2251/00		Group B23B 2251/00 is impacted by reclassification into groups B23B 2251/16, B23B 2251/51 and B23B 2251/74. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2251/02		Group B23B 2251/02 is no longer used for the classification of documents as of January 1, 2022. The content of this group is being reclassified into groups B23B 51/0003, B23B 51/0004 and B23B 51/0005. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2251/04		Group B23B 2251/04 is impacted by reclassification into groups B23B 2251/047 and B23B 2251/048. Groups B23B 2251/04, B23B 2251/047 and B23B 2251/048 should be considered in order to perform a complete search.
N	B23B 2251/047		Group B23B 2251/047 is incomplete pending reclassification of documents from groups B23B 2251/04 and B23B 2251/14. Groups B23B 2251/04, B23B 2251/14 and B23B 2251/047 should be considered in order to perform a complete search.
N	B23B 2251/048		Group B23B 2251/048 is incomplete pending reclassification of documents from groups B23B 2251/04 and B23B 2251/14. Groups B23B 2251/04, B23B 2251/14 and B23B 2251/048 should be considered in order to perform a complete search.
N	B23B 2251/082		Group B23B 2251/082 is impacted by reclassification into group B23B 2251/0825. Groups B23B 2251/082 and B23B 2251/0825 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 2251/0825		Group B23B 2251/0825 is incomplete pending reclassification of documents from group B23B 2251/082. Groups B23B 2251/082 and B23B 2251/0825 should be considered in order to perform a complete search.
N	B23B 2251/14		Group B23B 2251/14 is impacted by reclassification into groups B23B 2251/047 and B23B 2251/048. Groups B23B 2251/14, B23B 2251/047 and B23B 2251/048 should be considered in order to perform a complete search.
N	B23B 2251/16		Group B23B 2251/16 is incomplete pending reclassification of documents from group B23B 2251/00. Groups B23B 2251/00 and B23B 2251/16 should be considered in order to perform a complete search.
N	B23B 2251/18		Group B23B 2251/18 is impacted by reclassification into groups B23B 2251/182, B23B 2251/185 and B23B 2251/188. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2251/182		Group B23B 2251/182 is incomplete pending reclassification of documents from group B23B 2251/18. Groups B23B 2251/18 and B23B 2251/182 should be considered in order to perform a complete search.
N	B23B 2251/185		Group B23B 2251/185 is incomplete pending reclassification of documents from group B23B 2251/18. Groups B23B 2251/18 and B23B 2251/185 should be considered in order to perform a complete search.
N	B23B 2251/188		Group B23B 2251/188 is incomplete pending reclassification of documents from group B23B 2251/18. Groups B23B 2251/18 and B23B 2251/188 should be considered in order to perform a complete search.
N	B23B 2251/24		Group B23B 2251/24 is impacted by reclassification into group B23B 2251/249. Groups B23B 2251/24 and B23B 2251/249 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 2251/249		Group B23B 2251/249 is incomplete pending reclassification of documents from groups B23B 51/00, B23B 51/02 and B23B 2251/24. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2251/40		Group B23B 2251/40 is impacted by reclassification into groups B23B 2251/4011 and B23B 2251/4012. Groups B23B 2251/40, B23B 2251/4011 and B23B 2251/4012 should be considered in order to perform a complete search.
N	B23B 2251/4011		Group B23B 2251/4011 is incomplete pending reclassification of documents from group B23B 2251/40. Groups B23B 2251/40 and B23B 2251/4011 should be considered in order to perform a complete search.
N	B23B 2251/4012		Group B23B 2251/4012 is incomplete pending reclassification of documents from group B23B 2251/40. Groups B23B 2251/40 and B23B 2251/4012 should be considered in order to perform a complete search.
N	B23B 2251/406		Group B23B 2251/406 is impacted by reclassification into group B23B 2251/4062. Groups B23B 2251/406 and B23B 2251/4062 should be considered in order to perform a complete search.
N	B23B 2251/4062		Group B23B 2251/4062 is incomplete pending reclassification of documents from group B23B 2251/406. Groups B23B 2251/406 and B23B 2251/4062 should be considered in order to perform a complete search.
N	B23B 2251/44		Group B23B 2251/44 is impacted by reclassification into group B23B 2251/448. Groups B23B 2251/44 and B23B 2251/448 should be considered in order to perform a complete search.
N	B23B 2251/448		Group B23B 2251/448 is incomplete pending reclassification of documents from group B23B 2251/44. Groups B23B 2251/44 and B23B 2251/448 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23B 2251/50		Group B23B 2251/50 is no longer used for the classification of documents as of January 1, 2022. The content of this group is being reclassified into groups B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008 and B23B 51/0011. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2251/505		Group B23B 2251/505 is no longer used for the classification of documents as of January 1, 2022. The content of this group is being reclassified into groups B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008 and B23B 51/0011. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23B 2251/51		Group B23B 2251/51 is incomplete pending reclassification of documents from group B23B 2251/00. Groups B23B 2251/00 and B23B 2251/51 should be considered in order to perform a complete search.
N	B23B 2251/74		Group B23B 2251/74 is incomplete pending reclassification of documents from group B23B 2251/00. Groups B23B 2251/00 and B23B 2251/74 should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (New)

Insert the following new definitions.

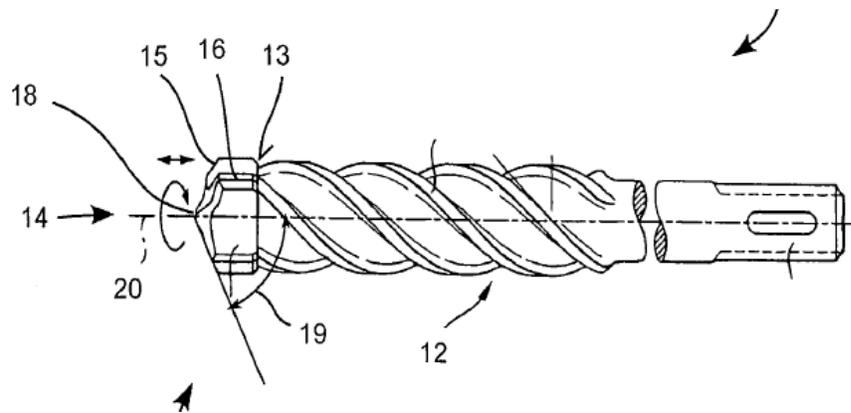
B23B51/0002

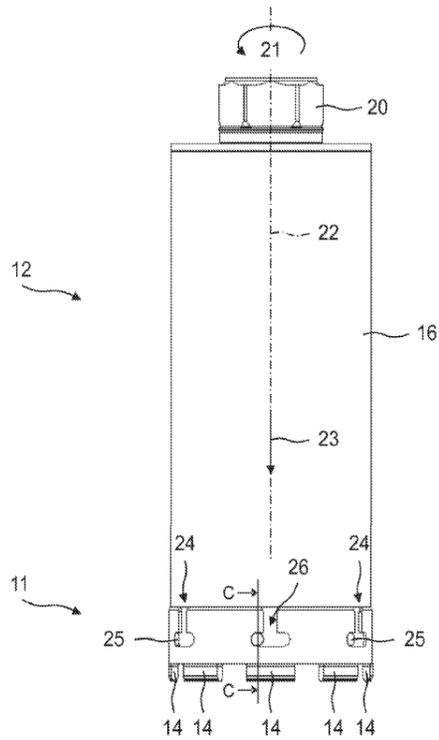
Definition statement

This place covers:

Drills with separate cutting heads permanently attached to the drill, e.g. brazing or welding. A single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position is considered to be within the scope of this group.

Illustrative example of subject-matter classified in this group:





References

Informative references

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

Drill bits with other types of cutting inserts	B23B 51/0006
------------------------------------------------	------------------------------

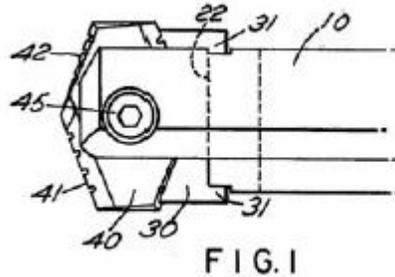
B23B 51/00035

Definition statement

This place covers:

Drills with a removable insert having a flat spade configuration, which includes a centre tip cutting edge and two radially extending cutting edges.

Illustrative example of subject-matter classified in this group:



References

Informative references

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

Drill bits with other types of cutting inserts	B23B 51/0006
Other spade drill bits	B23B 51/0095

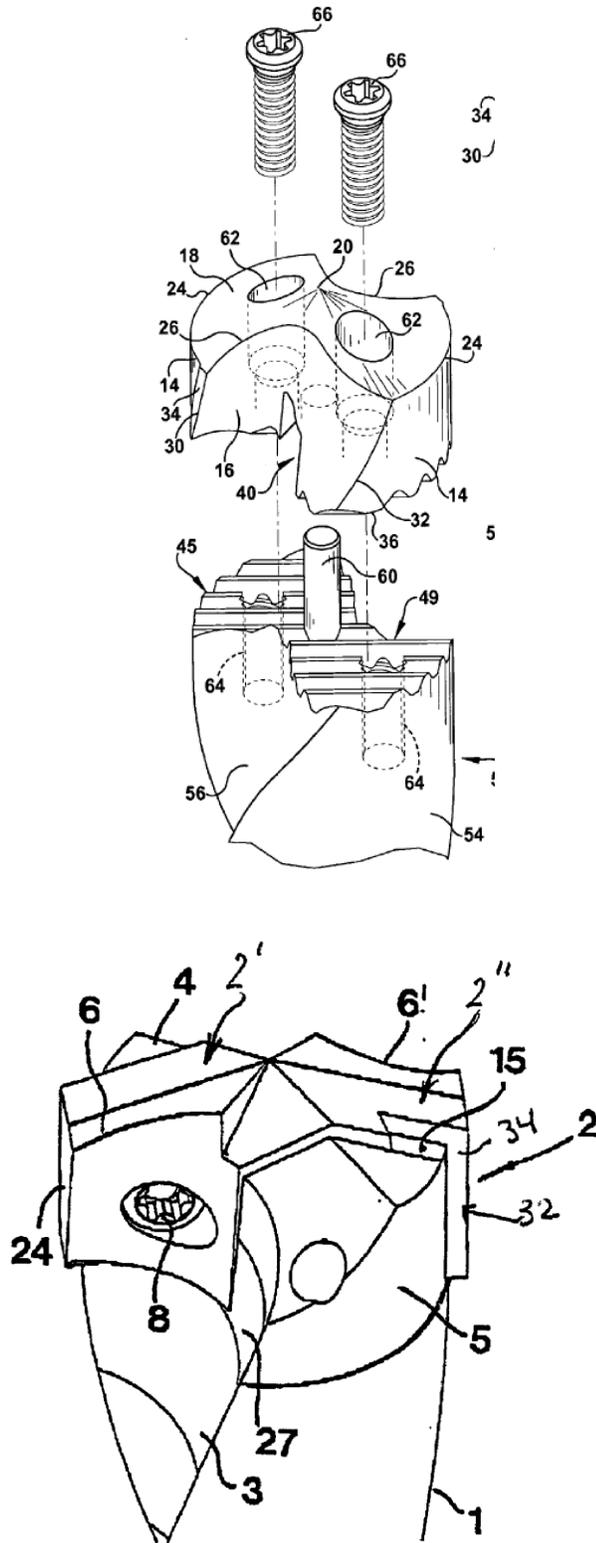
B23B 51/0004

Definition statement

This place covers:

Drills with separate cutting heads removably attached to the drill by screw means. A single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position is considered to be within the scope of this group when it is attached via screw means.

Illustrative example of subject-matter classified in this group:



References

Informative references

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

Drill bits with other types of cutting inserts	B23B 51/0006
------------------------------------------------	------------------------------

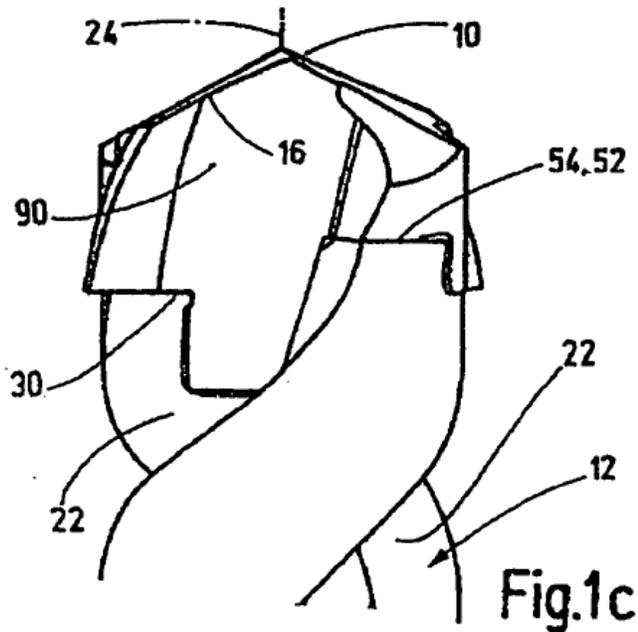
B23B 51/0005

Definition statement

This place covers:

Drills with separate cutting heads removably attached to the drill by wedge means (i.e., producing a wedging effect between the separate cutting head and the shank of the drill). A single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position is considered to be within the scope of this group via a wedging action.

Illustrative example of subject-matter classified in this group:



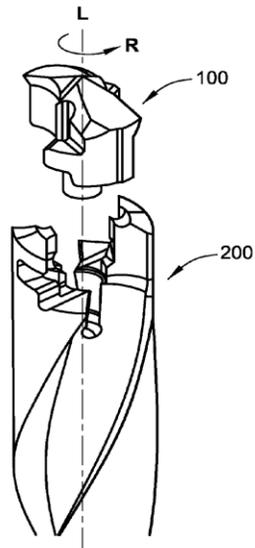


Fig. 1

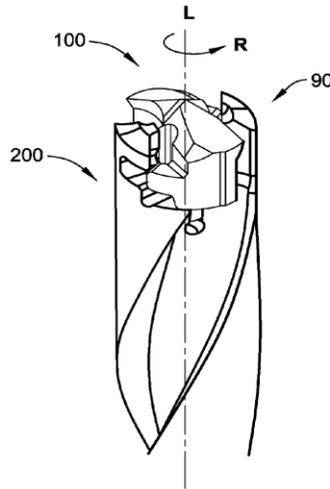


Fig. 2

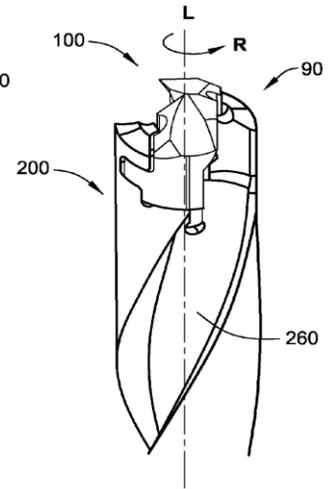


Fig. 3

References

Informative references

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

Drill bits with other types of cutting inserts	B23B 51/0006
------------------------------------------------	------------------------------

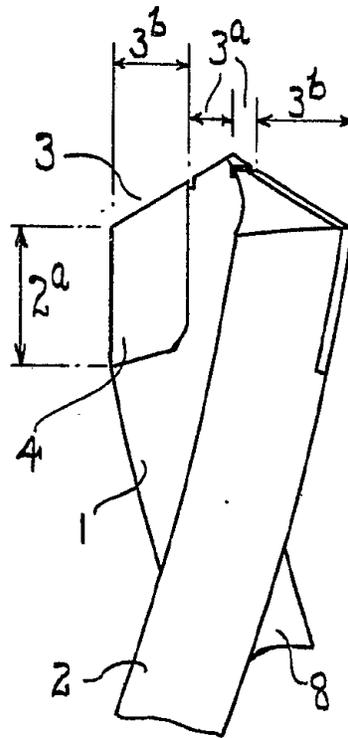
B23B 51/0006

Definition statement

This place covers:

Drills with non-exchangeable cutting inserts, e.g. via brazing or welding.

Illustrative example of subject-matter classified in this group:



References

Limiting references

This place does not cover:

Drills with a single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position	B23B 51/0002
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Informative references

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

Cutting tools of which the bits or tips (or cutting inserts) are of special material	B23B 27/14
Cutting inserts for milling	B23C 5/18, B23C 5/20
Cutting inserts for reaming	B23D 77/02

References

Informative references

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

Drills with a single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position	B23B 51/0002
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Special rules of classification

Allocation of 2000-series Indexing Codes from the section [B23B2200/00](#) is mandatory.

B23B 51/0008

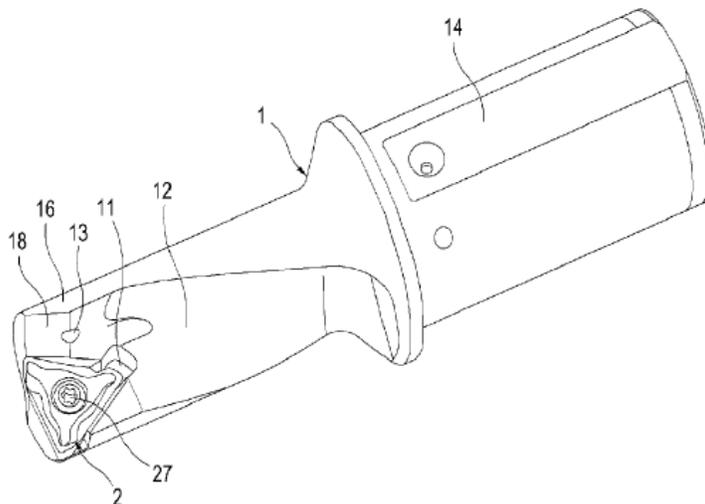
Definition statement

This place covers:

Drills with indexable cutting inserts.

An indexable cutting insert has multiple cutting edges. After one cutting edge is worn, the indexable cutting insert can be rotated about an indexing axis or turned over to make available another cutting edge in the working position.

Illustrative example of subject-matter classified in this group:



References

Informative references

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

Drills with a single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position	B23B 51/0002
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Special rules of classification

Allocation of 2000-series Indexing Codes from the section [B23B 2200/00](#) is mandatory.

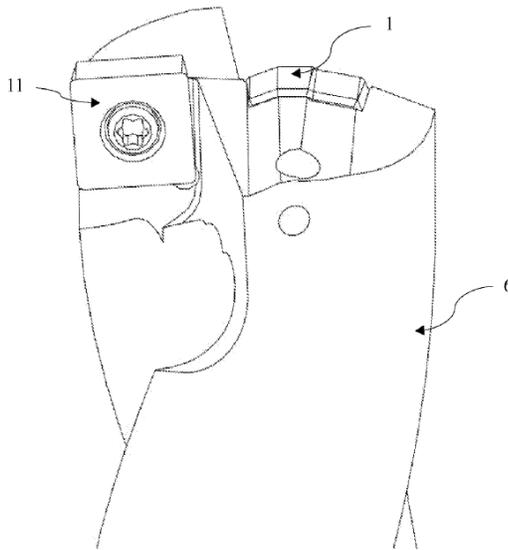
[B23B 51/0011](#)

Definition statement

This place covers:

Drills with cutting inserts set at different radial distances from the rotation axis.

Illustrative example of subject matter classified in this group:



References

Informative references

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

Drills with a single insert extending across the rotational axis and having at least two radially extending cutting edges in the working position	B23B 51/0002
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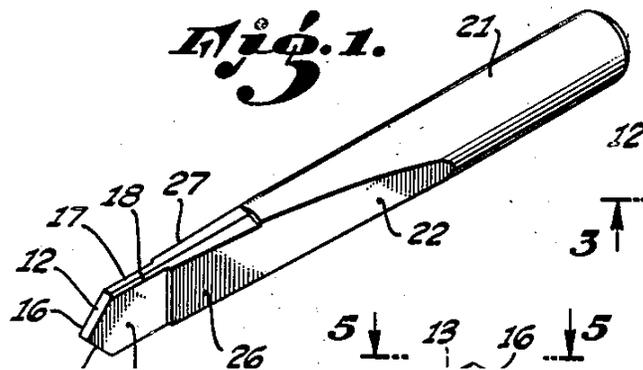
B23B 51/0095

Definition statement

This place covers:

Monolithic drills that have a generally flat spade configuration in the cutting portion, which includes a centre tip cutting edge and two radially extending cutting edges. These drills are also commonly referred to as paddle bits.

Illustrative example of subject-matter classified in this group:



References

Limiting references

This place does not cover:

Spade drills with exchangeable heads or inserts	B23B 51/00035
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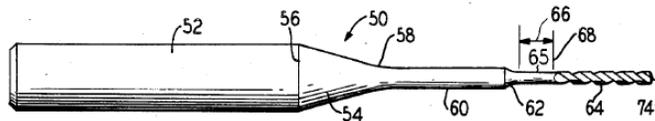
Informative references*Attention is drawn to the following places, which may be of interest for search:*

Bits for woodworking	B27G 15/00
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B23B 51/011**Definition statement***This place covers:*

Drills having a cutting portion smaller than one millimetre in diameter.

Illustrative example of subject matter classified in this group:

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

Drilling machines for very small holes	B23B 41/14
----------------------------------------	------------

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

Drills for printed circuits	H05K 3/0047
-----------------------------	-------------

B23B 51/0411**Definition statement***This place covers:*

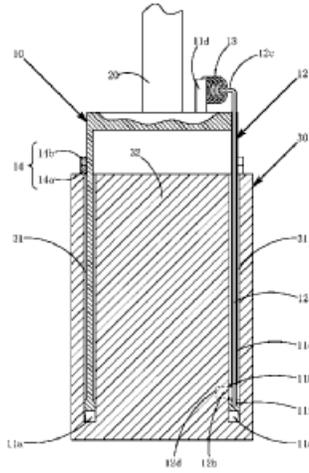
Drills for trepanning with stepped tubular cutting bodies.

Illustrative example of subject-matter classified in this group:

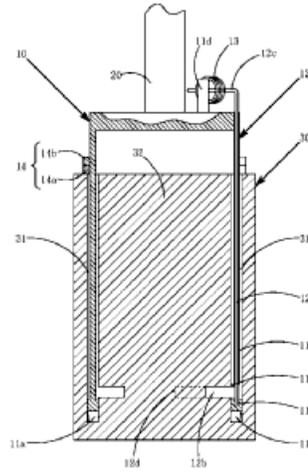
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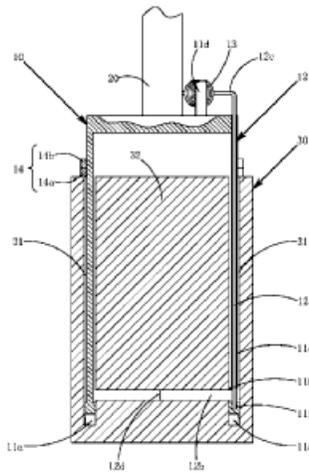
【图 7】



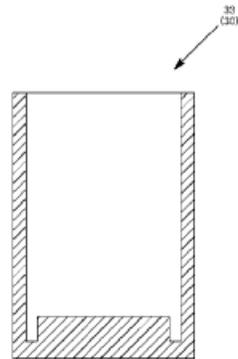
【图 8】



【图 9】



【图 10】



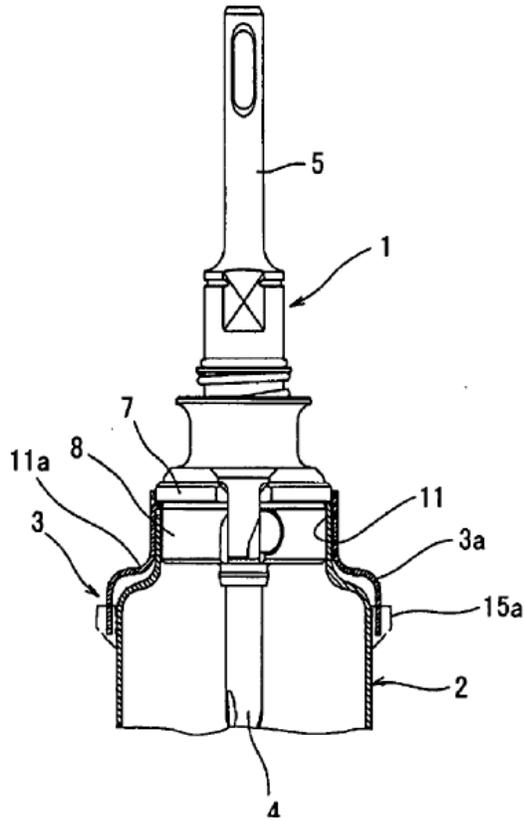
B23B 51/0417

Definition statement

This place covers:

Drills for trepanning including a chamfer cutter or spot bore (also referred to as counterbore) cutter.

Illustrative example of subject-matter classified in this group:



B23B 51/042

Definition statement

This place covers:

Trepanning drills including cooling or lubricating means.

Illustrative example of subject-matter classified in this group:

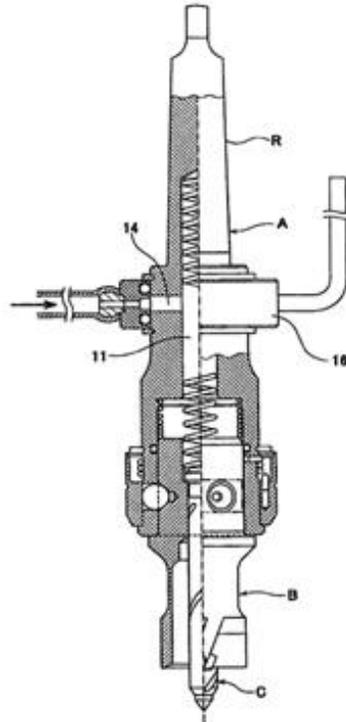


FIG. 9

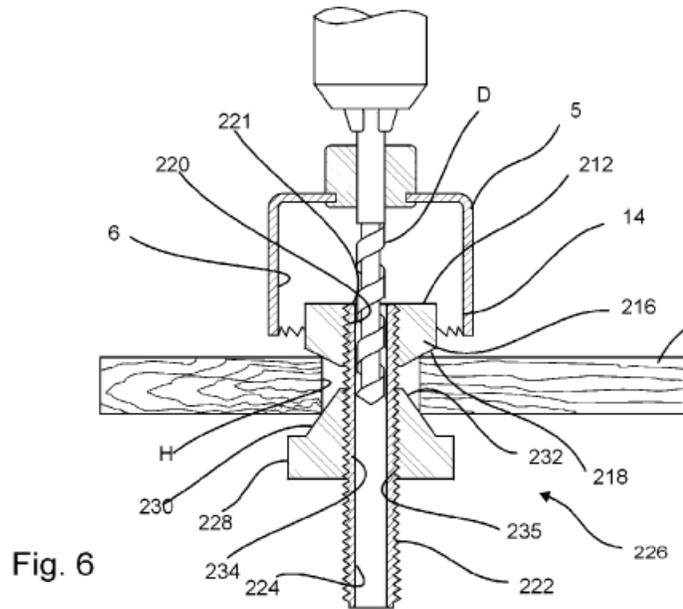
B23B 51/0426

Definition statement

This place covers:

Trepanning drills including means for centering the drill relative to a new, e.g. a pilot drill, or existing hole, e.g. an attachment that engages an existing hole.

Illustrative example of subject-matter classified in this group:



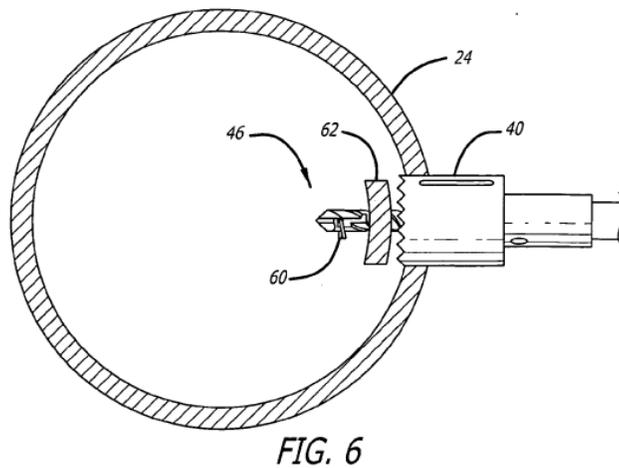
B23B 51/044

Definition statement

This place covers:

Trepanning drills with devices for holding core relative to the drill such that the core is removed when the drill is removed.

Illustrative example of subject-matter classified in this group:



B23B 51/0453

Definition statement

This place covers:

Trepanning drills with devices for ejecting the core or slug from the interior of the drill.

Illustrative example of subject-matter classified in this group:

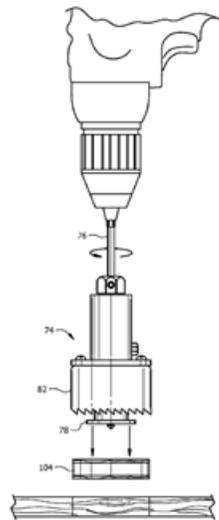


FIG. 12

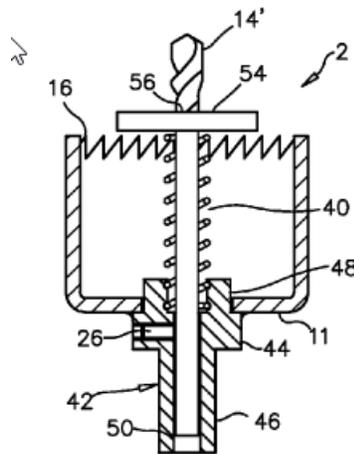


Fig. 5

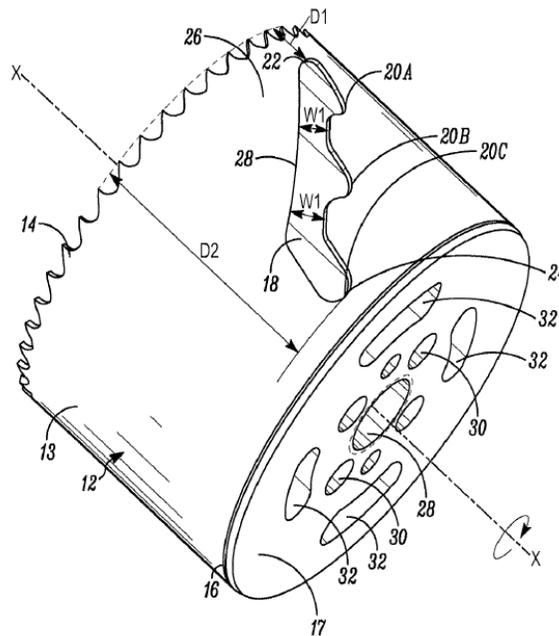
B23B 51/0467

Definition statement

This place covers:

Details of the tubular body sidewall of drills for trepanning.

Illustrative example of subject-matter classified in this group:



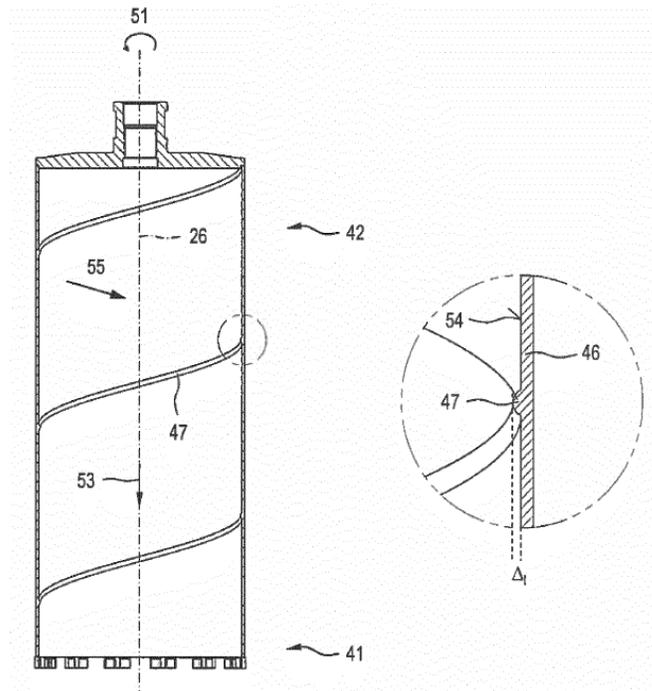
B23B 51/0468

Definition statement

This place covers:

Details of internal grooves of the tubular body sidewall of drills for trepanning.

Illustrative example of subject-matter classified in this group:



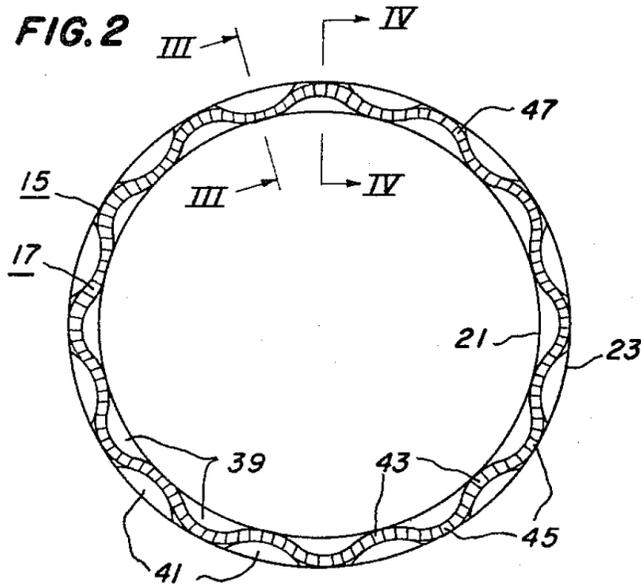
B23B 51/0469

Definition statement

This place covers:

Details of eccentric or non-circular tubular body sidewalls of drills for trepanning.

Illustrative example of subject-matter classified in this group:



B23B 51/0473

Definition statement

This place covers:

Details of connections between the driven shaft (e.g., spindle or arbor) and the tubular cutting part.

Illustrative example of subject-matter classified in this group:

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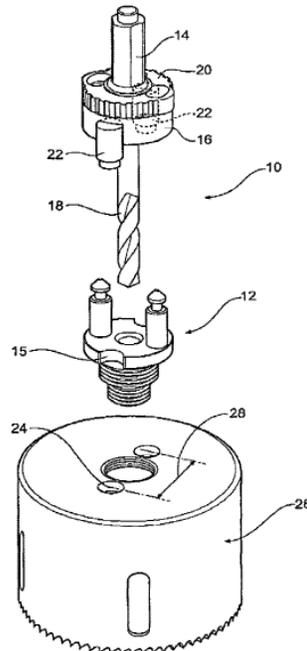


Fig 1

B23B 51/063

Definition statement

This place covers:

Deep hole drills for producing new as well as for machining of existing bore holes. Deep bore holes refer to bore holes that are machined by classical deep hole drilling methods and/or drilling methods with a length-to-diameter ratio larger than 10. The classical deep hole drilling methods are single-lip gun drilling (B23B 51/066) and drilling with a single-tube or double-tube system (B23B 51/063).

Illustrative example of subject-matter classified in this group:

In the single-tube system (STS or BTA system), the cooling lubricant is introduced from outside under pressure in an annular space between the bore wall and the boring bar while the chips are removed through the die chip mouth and the boring bar.

References

Informative references

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

Boring or drilling machines for boring deep holes	B23B 41/02
---------------------------------------------------	----------------------------

B23B 51/066

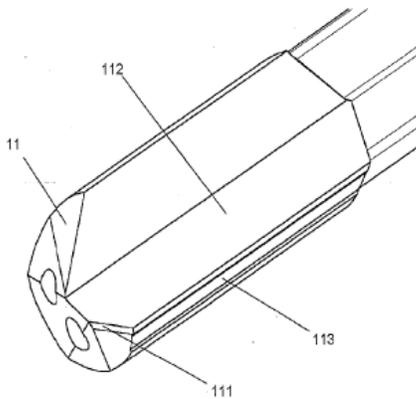
Definition statement

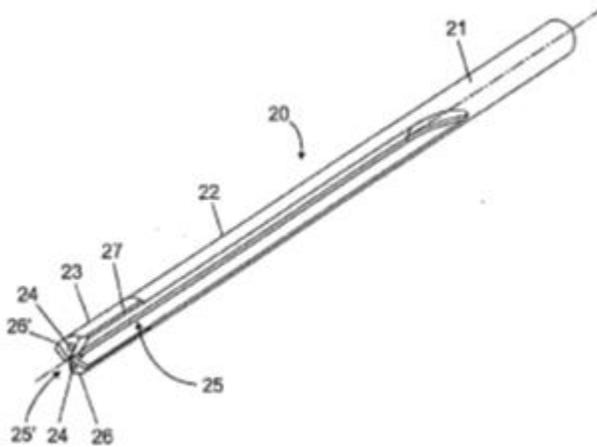
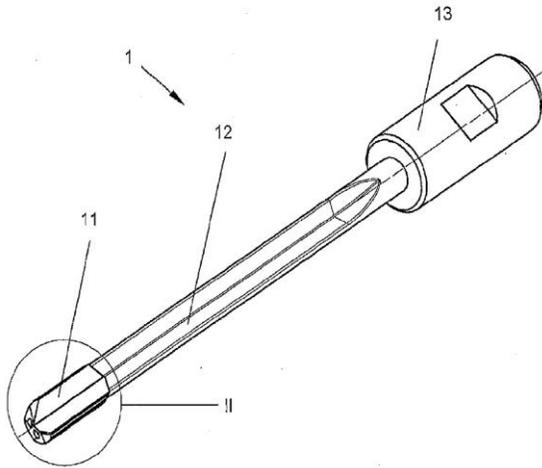
This place covers:

Gun drills.

Illustrative example of subject-matter classified in this group:

In the classical single-lip gun drill, the cooling lubricant is delivered through one or more holes, which pass through the tool shank. The mixture of chips and cooling lubricant is removed along a single straight flute or longitudinal groove (bead) on the outside of the tool shank.





In the double-lip gun drill, the cooling lubricant passes through the tool shank and the mixture of chips and cooling lubricant is removed along two symmetrical straight flutes on the outside of the tool shank.

References

Informative references

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

Boring or drilling machines for boring deep holes, e.g. in gun or rifle barrels	B23B 41/02
---------------------------------------------------------------------------------	----------------------------

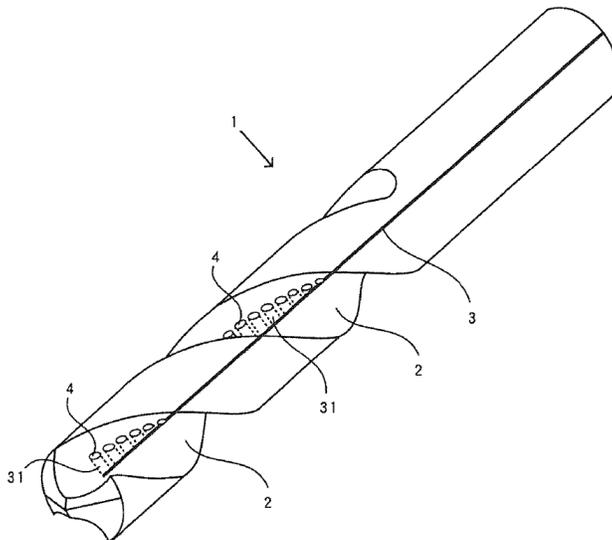
B23B 51/068

Definition statement

This place covers:

Drilling tools in which the details of the cooling or lubricating channel(s) are of importance.

Illustrative example of subject-matter classified in this group:



B23B 51/0682

Definition statement

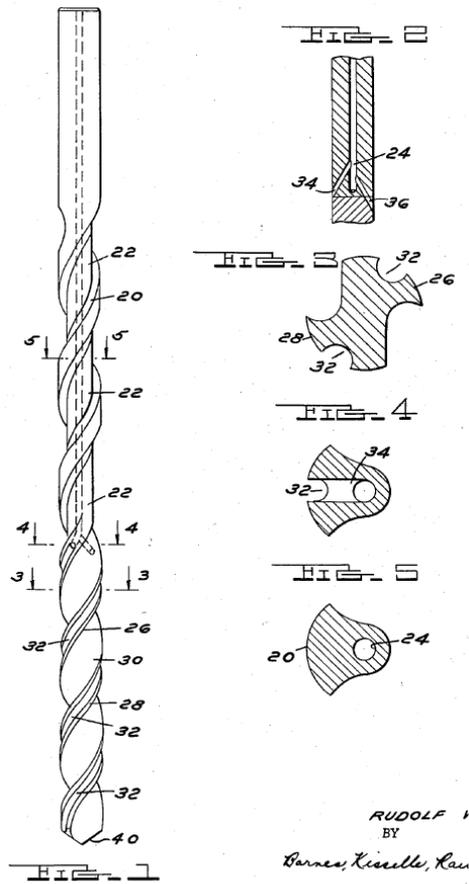
This place covers:

Drills with lubricating or cooling equipment, wherein coolant moves along outside of tool periphery toward cutting edges.

Illustrative example of subject-matter classified in this group:

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B23B 51/0684

Definition statement

This place covers:

Drills with lubricating or cooling equipment with deflector or nozzle on to point direct the coolant in a desired direction.

Illustrative example of subject-matter classified in this group:

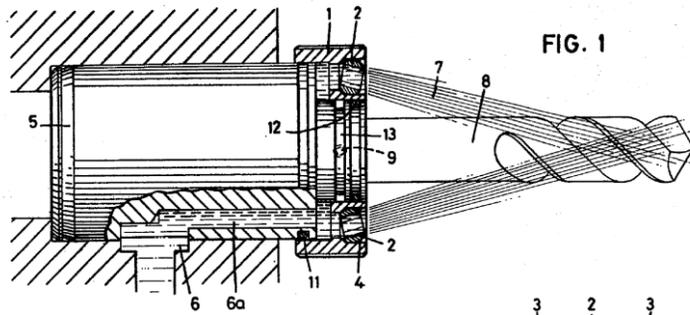


FIG. 1

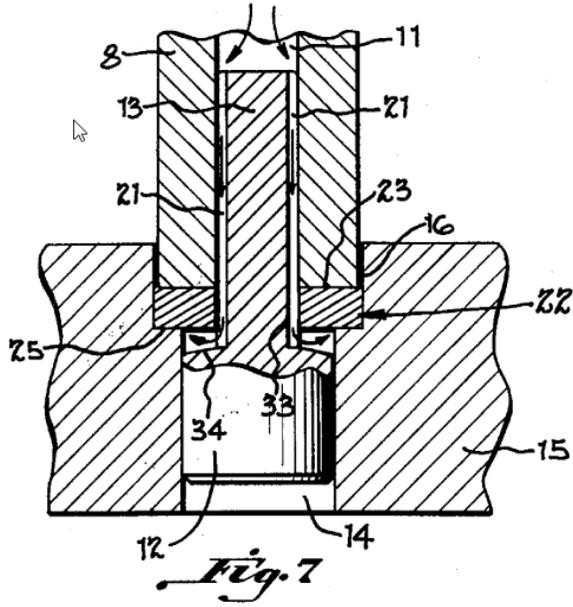


Fig. 7

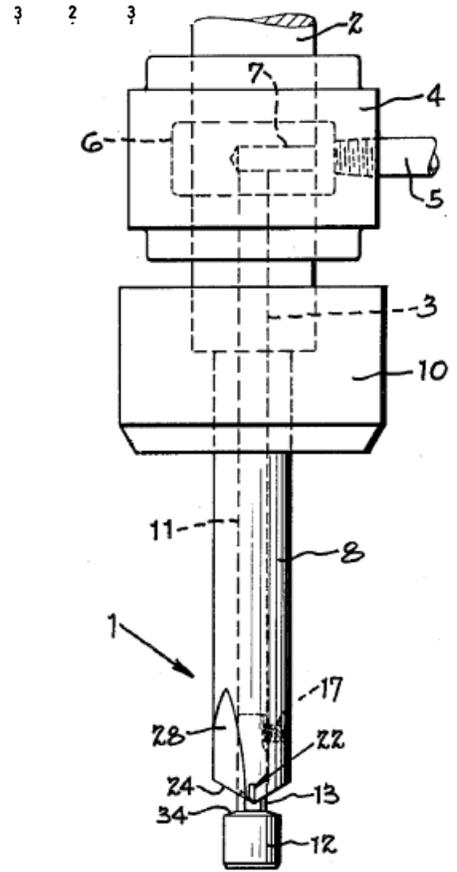


Fig. 1

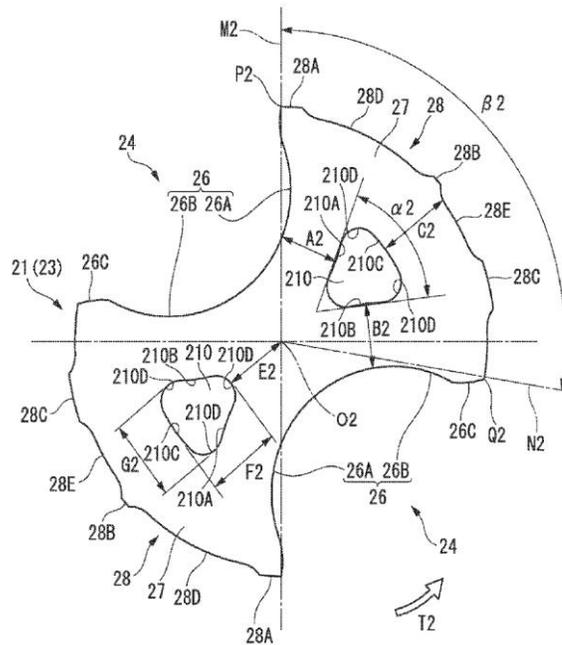
B23B 51/0686

Definition statement

This place covers:

Details of the cross-sectional shape of coolant hole(s).

Illustrative example of subject matter classified in this group:



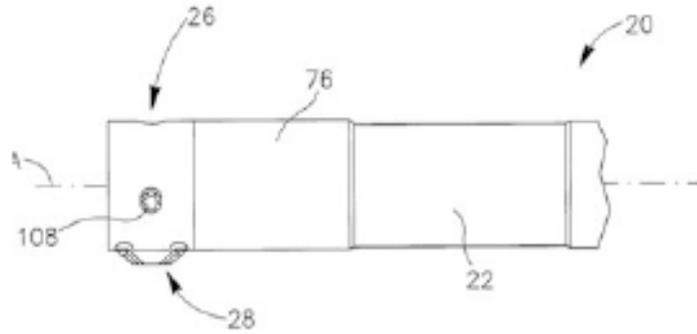
B23B 51/101

Definition statement

This place covers:

Tools for removing burrs by smoothing of rough edges or ridges of a hole.

Illustrative example of subject-matter classified in this group:



Deburring drill with insert "28"

B23B 51/102

Definition statement

This place covers:

Tools for removing burrs by smoothing of rough edges or ridges of a hole.

Illustrative example of subject-matter classified in this group:

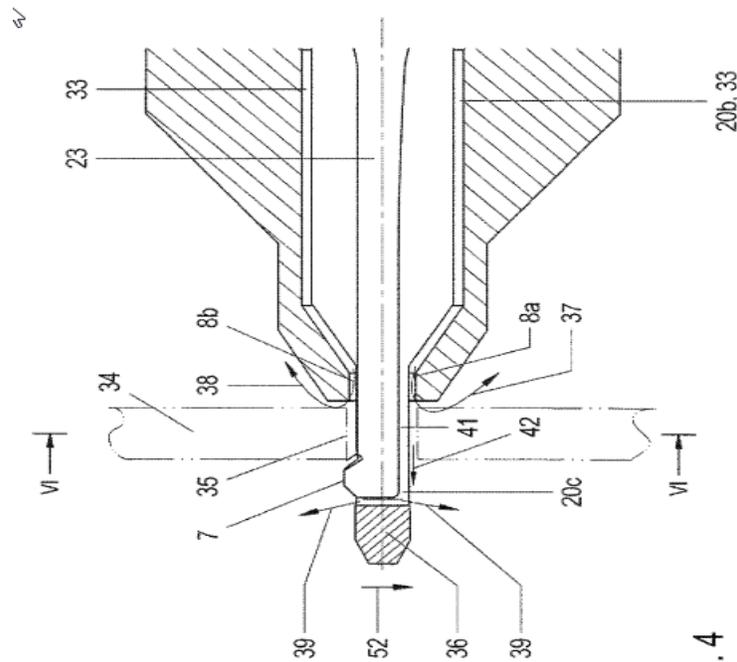
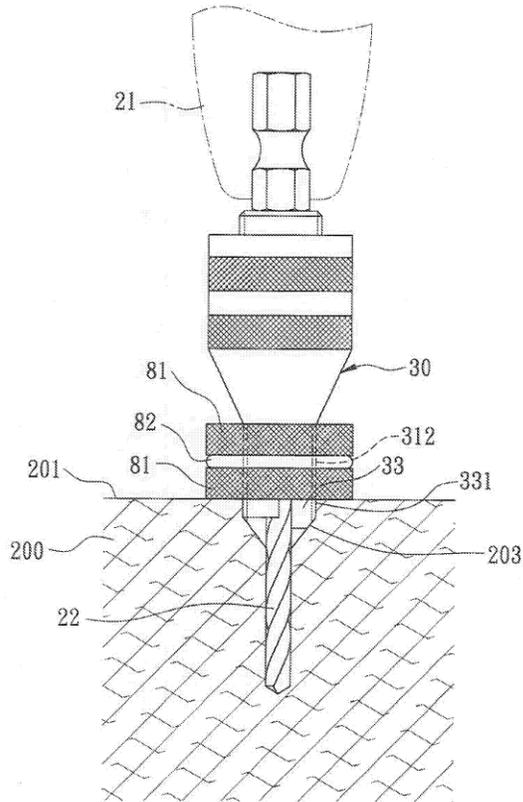


Fig. 4



Chamfer drill with depth stop

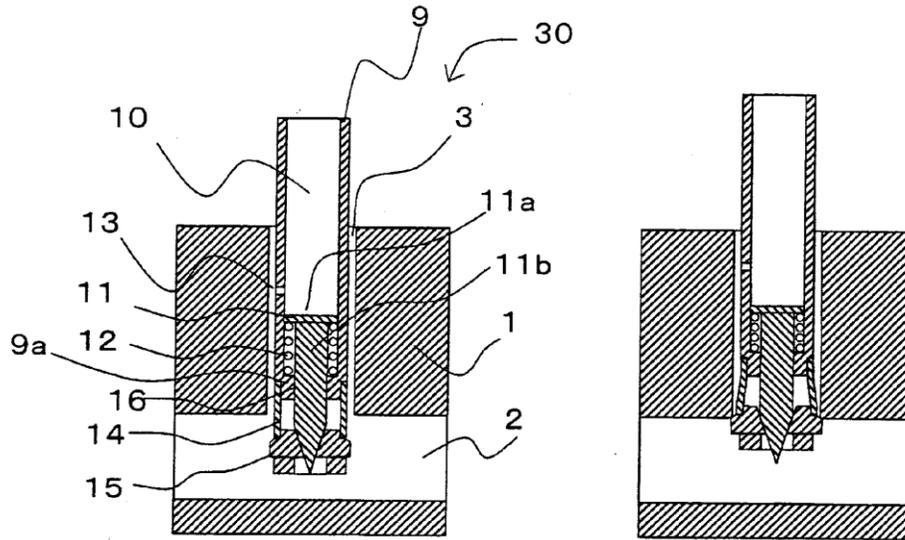
B23B 51/105

Definition statement

This place covers:

Tools for removing burrs from edges or ridges of a hole crossing the hole in which the tool is inserted. Also, tools for enlarging the rim of such crossing hole, especially by chamfering or bevelling.

Illustrative example of subject matter classified in this group:



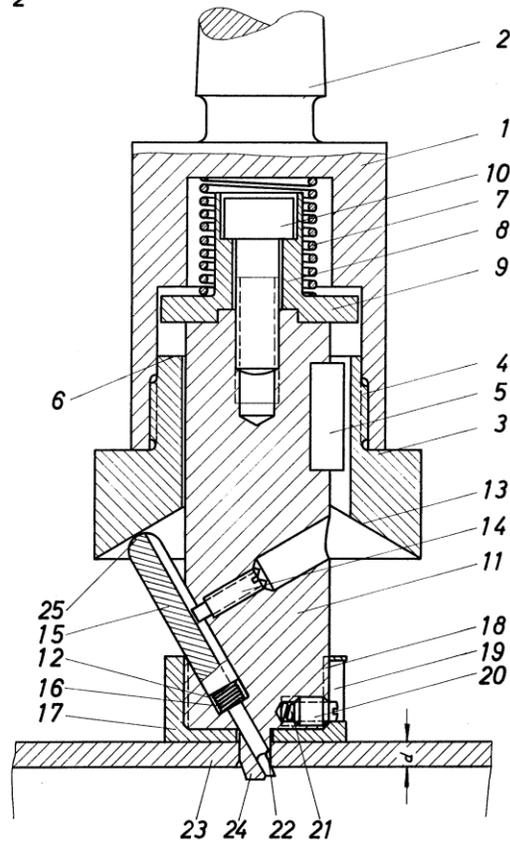
Tool to deburr radial holes

B23B 51/106

Definition statement

Illustrative example of subject matter classified in this group:

Abb. 2



Chamfering tool with cutting edge moving obliquely to the axis

References

Informative references

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

Bevelling, chamfering, or deburring the ends of bars or tubes	B23B 5/16
---------------------------------------------------------------	---------------------------

Application-oriented references

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

Deburring by milling	B23C 3/12
Thermal deburring	B23D 79/005
Deburring by scraping	B23D 79/02
Deburring by grinding	B24B

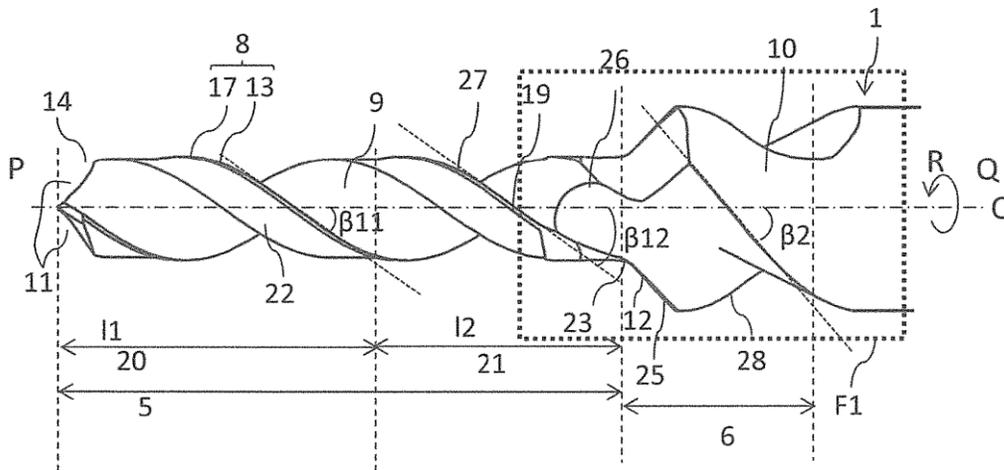
B23B 51/108

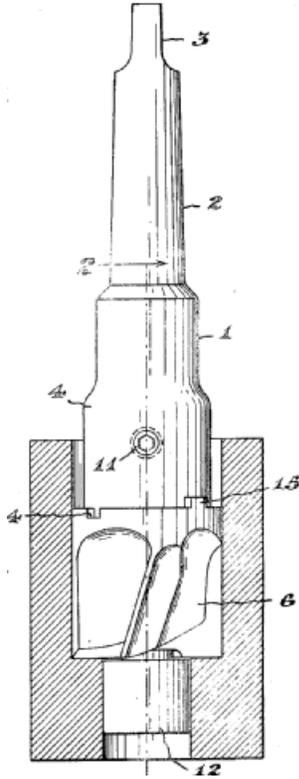
Definition statement

This place covers:

Bits for countersinking having a centering drill axially forward of the countersinking cutting edges.

Illustrative example of subject-matter classified in this group:





References

Limiting references

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

Back spot-facing or back chamfering tools

B23B 51/102

2. A. DEFINITIONS (Modified)

B21K5/04

Informative references

Replace: In the existing “Informative references” table only the reference text “Metal drilling tools” with the following updated text.

Tools for drilling machines	B23B 51/00
-----------------------------	------------

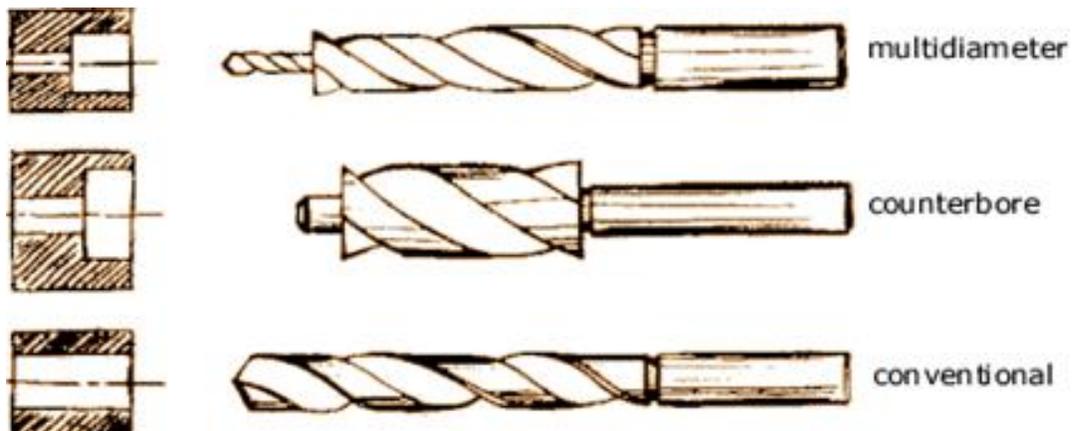
B23B 51/00

Definition statement

Replace: All of the text in the “Definition statement” section with the following updated text (no changes were made to images so keep the same images in their existing locations as shown with the updated text below).

Tools for drilling machines that must be related to a drilling operation. The term "drilling" refers to the removal of material of from a workpiece with at least one geometrically defined cutting edge of the drilling tool during rotation of the tool, relative to the workpiece, about a rotation axis thereof. Furthermore, during drilling the tool only moves axially relative to the workpiece during operation. The primary purpose of the efficient removal of material for forming or enlarging a bore or hole.

Illustrative examples of drilling tools classed within B23B 51/00 and subgroups:



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[B23B 51/009](#) Stepped drill (top figure)[B23B 51/107](#) Counterboring drill with pilot (middle figure)[B23B 51/02](#) Twist drill (bottom figure)**Relationships with other classification places**

Replace: The entire “Relationships with other classification places” section with the following updated text.

B23B 51/00 covers features of tools specifically related to drilling of metal or metal-like materials. Features relating to the drilling of materials other than metal will only be classified in B23B if the content of such documents renders them applicable to metal cutting.

Insert: The following new “References/Informative references” section.

References**Informative references**

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

Shank-type milling cutters, i.e. with an integral shaft	B23C5/10
Drill bits for surgery	A61B 17/1615
Drill bits for dentistry	A61C 3/02
Implanting tools or instruments	A61C 8/0089
Flow drills	B21J 5/066
Forming collars by flow-drilling	B21C 37/298
Tools for orbital drilling	B23C 3/02 , B23C 2220/52
Reaming tools	B23D 77/00
Making holes by electrical discharge machine or electrochemical machining	B23H 9/14
Boring by laser beam	B23K 26/00
Making drilling tools	B23P 15/32 , B23P 15/28
Perforating tools	B26F 1/16
Perforating by non-mechanical means, e.g. by fluid jet	B26F 1/26

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Wood bits that would not be suitable for use on metal or metal-like substances	B27B 5/12
Drill bits for drilling wood	B27G 15/00
Drill bits for stone or stone-like materials, e.g. brick, concrete, glass	B28D 1/00
Drill bits with geometrically undefined cutting edges for stone or glass materials	B28D 1/146 B28D 1/041
Implements for stirring paint	B44D 3/06
Drill bits or drill inserts characterized only by the composition of the coating	C23C 30/005
Drill bits for earth drilling	E21B 10/00

Special rules of classification

Replace: In the existing “Special rules of classification” section only the second paragraph: “Drilling tools with detachable...B23B 51/00” with the following updated second paragraph.

Paint stirrers, yacht sail hoisters, pumps for hosepipes or other tools that are attached to a portable drilling machine as a source of power are classified in the application-oriented places.

B23B 51/04

Definition statement

Delete: The following text located under the symbol “B23B 51/04” and located before the words “Definition statement”.

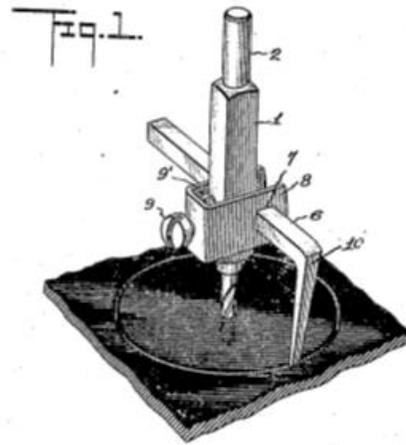
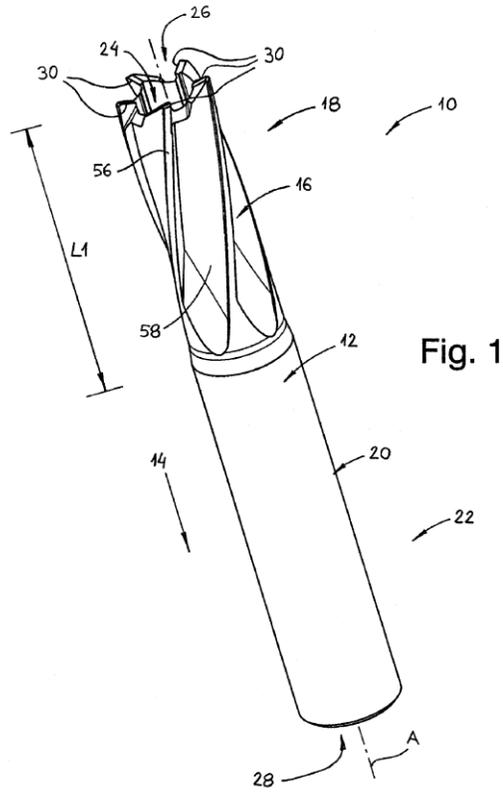
Drills for trepanning

Replace: ALL of the existing text and images in the “Definition statement” section with the following updated text and images (place the updated “Definition statement” text and images before the existing “References/Informative references” section).

Drills for cutting a disc or cylindrical core from a workpiece.

Note: Commonly, but not exclusively, drills for trepanning are drills with cutting edges arranged annularly about an open end of a tubular body. These drills are also known as hole saws, core drills and plug cutters.

Illustrative examples of subject matter classified in this group:



B23B 51/05: Drills for trepanning for cutting discs from sheet

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Informative references

Replace: ALL of the references in the existing “Informative references” table with the following two updated references.

Cylinder saws for trepanning stone or glass and having their cutting rim equipped with abrasive particles	B28D 1/041
Cylinder saws for trepanning wood that would not be suitable for use on metal or metal-like substances	B27B 5/12

B23B 51/06

Definition statement

Replace: ALL existing statements in the “Definition statement” section with the following three updated statements (note that there are no changes to the existing image; keep the image in its existing location).

Drilling tools in which the cooling or lubricating means are of primary importance (i.e. drilling tools which have special cooling or lubricating means).

Illustrative example of subject matter classified in this group:



B23B 51/06 Drill with cooling equipment

Insert: The following new “Relationships with other classification places” section.

Relationships with other classification places

Drilling tools having lubricating means that are not of special significance can be allocated the indexing code B23B 2250/12.

Insert: The following new “References/Limiting references” section.

References

Limiting references

This place does not cover:

Drills for trepanning with lubricating or cooling equipment	B23B 51/042
-------------------------------------------------------------	-------------

B23B 51/10

Definition statement

Replace: The existing text in the “Definition statement” section with the following updated text and new image.

Bits for cutting processes used in the finishing of holes including countersinking, counterboring, chamfering, deburring and spot facing.

Illustrative examples of subject matter classified in this group:

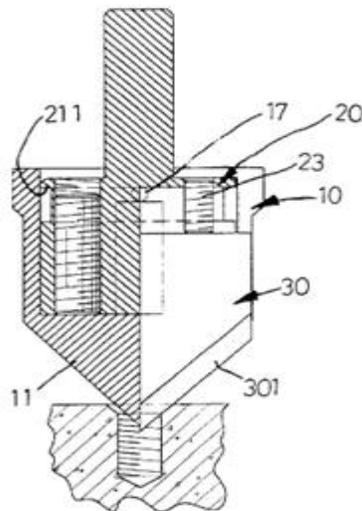


FIG.4

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References

Delete: From under the existing “References/Informative references” table ALL of the Text and Images beginning with the text: “Illustrative examples:” followed by several images and ending with the text: “[B23B 51/108](#) Chamfering drill with centring twist drill (Source: WO 2005/002767).”

Illustrative examples:

(through last statement shown below)

[B23B 51/108](#) Chamfering drill with centring twist drill (Source: WO 2005/002767).

B23D 79/00

Definition statement

Insert: The following statement as the second statement in the “Definition statement” section.

Illustrative example of subject matter classified in this group:

Replace: In the “Definition statement” section the text that is split into two parts and which is located before the third image (the image has “FIG.4” as part of the image); see the replacement text (one statement) shown below.

Scraping (deburring) device to remove dross from end of cut metal workpiece [B23D 79/02](#)

Replace: In the “Definition statement” section the text split into two parts and located under the fifth image so the replacement text reads as follows.

Removal of internal pipe bead with additional equipment (hot gas31) [B23D 79/025](#)

Relationships with other classification places

Replace: Only the first paragraph in the “Relationships with other classification places” section with the following updated first paragraph (do not delete the existing second paragraph).

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This group is only used when the removal of metal cannot be classified in a more suitable field elsewhere in the CPC schemes.

Limiting references

Delete: Most of the references in the existing “Limiting references” table except for the following references (leave the following references in the table).

Removal of material by combined operations all classed within B23D	B23D 81/00
Cutting (including deburring) by electro-erosion (EDM) or electro-chemical machining (ECM)	B23H
Cutting (including deburring) by electron-beam	B23K 15/00
Cutting (including deburring) by laser beam	B23K 26/00
Work holding devices for machine tools	B23Q 3/00
Handles suitable for hand scraping implements	B25G

Informative references

Insert: The following new references in the existing “Informative references” table.

Cleaning using scrapers	B08B
Removal of material by turning, boring, drilling; in particular:	B23B
Machines or devices for chamfering the ends of bars or tubes	B23B 5/16
Deburring by use of a drilling tool	B23B 51/10
Chucks suitable to hold scraping and other tools	B23B 31/00
Removal of material by milling; in particular:	B23C
Deburring by milling	B23C 3/12
Removal of material by planing (shaping), slotting, shearing, broaching, sawing, filing, rasping or	B23D

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reaming: Like operations for working metal by removing material, not otherwise provided for	
Cutting (including deburring) by electro-erosion (EDM) or electro-chemical machining (ECM)	B23H
Cutting using flames (e.g. oxy-acetylene)	B23K 7/00
Cutting (including deburring) using an arc	B23K 9/013
Cutting (including deburring) using Plasma	B23K 10/00
Cutting (including deburring) by electron-beam; Auxiliary devices for flash removal after welding	B23K 37/08
Cutting (including deburring) by electro-erosion (EDM) or electro-chemical machining (ECM)	B23H
Removal of material by combined operations not all classed within B23D	B23P 13/00
Removal of material by grinding; in particular: Deburring or cleaning by grinding	B24B, B24D, B24B 9/00, B24B 27/033
Cutting using liquid jets containing abrasive; Deburring using liquid jets using liquid without abrasive particles	B24C
Work holding devices for machine tools	B25B
Severing using a liquid jet, not containing abrasive particles	B26F 3/004

Special rules of classification

Replace: The existing text in the “Special rules of classification” section with the following updated text.

Classification [B23D 79/00](#) is according to the literal interpretation of the subgroup headings, taking into account the notes concerning precedence rules and the references contained within the subgroups.

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B25D**Limiting references**

Replace: ALL of the references in the existing “Limiting references” table with the following new references.

Forging; Hammering; Pressing metal; Riveting; Forging furnaces	B21J
Hand-held or like portable drilling machines, e.g. drill guns; Equipment therefor	B23B 45/00
Percussion drilling	E21B 1/00
Operator-supported drilling machines or devices	B27C 3/08

Informative references

Insert: The following new references in the existing “Informative references” table.

Non-abrasive sharpening devices for scythes, sickles, or the like with percussive tools	A01D 3/02
Hand-operated implements for threshing	A01F 5/00
Meat pounders	A22C 9/00
Carpet beaters	A47L 13/36
Instruments for medical or veterinary examination by percussion	A61B 9/00
Tools for drilling machines	B23B 51/00
Twist drills	B23B 51/02
Hand-held nailing or stapling tools	B25C
Combination or multi-purpose hand tools not otherwise provided for	B25F 1/00
Machines or apparatus for embossing decorations or marks	B44B 5/00
Pick hammers for mining or quarrying, specially adapted for dislodging minerals	E21C 37/24
Chisels for mining or quarrying	E21C 37/26

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B25D17/00

Definition statement

Delete: At the end of the “Definition statement” the word “Examples:” so the updated statement reads as follows.

Attachments or adapters, percussive tool bits, constructional details.

Insert: The following new text as the second statement in the “Definition statement” section.

Illustrative example of subject matter classified in this group:

Delete: From this statement located under the first image: “Handles resiliently mounted relative to the hammer housing, B25D 17/043 (WO2007115845 A)” only the following text.

(WO2007115845 A)

Delete: From this statement located under the second image: “Means for retaining and guiding the tool bit, with radial movable locking elements, B25D 17/088 (EP2170562 A)” only the following text.

(EP2170562 A)

Delete: From this statement located under the third image: “Damping the reaction force, B25D 17/24 (EP1736283 A)” only the following text.

(EP1736283 A)

Insert: The following new “Limiting references” section.

Limiting references

This place does not cover:

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

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Informative references

Delete: From the “Informative references” table the existing reference shown below.

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

F16B25/103

Replace: In the “Informative references” table the reference “Drill bits” with the updated reference shown below.

Tools for drilling machines	B23B 51/00
-----------------------------	----------------------------

H01M50/00

Informative references

Replace: The existing reference “Drill tools” in the “Informative references” table with the updated reference shown below.

Tools for drilling machines	B23B 51/00
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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
B23B 51/0009			<u>Delete</u> the entire definition.
B23B 51/0406			<u>Delete</u> the entire definition.

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	B23B 51/00	B23B 51/00, B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011, B23B 51/0095, B23B 51/011, B23B 2251/249
D	B23B 51/0009	<administrative transfer to B23B 51/00035>
C	B23B 51/02	B23B 51/02, B23B 51/0002, B23B 51/0003, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011, B23B 51/011, B23B 2251/249,
C	B23B 51/04	B23B 51/0007, B23B 51/0008, B23B 51/04, B23B 51/0411, B23B 51/0417, B23B 51/0426, B23B 51/044, B23B 51/0461, B23B 51/0467, B23B 51/0468, B23B 51/0469
D	B23B 51/0406	<administrative transfer to B23B 51/04>
C	B23B 51/0426	B23B 51/0426, B23B 51/0007, B23B 51/0008, B23B 51/0466
D	B23B 51/0433	<administrative transfer to B23B 51/0426>
C	B23B 51/044	B23B 51/044, B23B 51/0007, B23B 51/0008, B23B 51/0466
D	B23B 51/0446	<administrative transfer to B23B 51/044>
C	B23B 51/0453	B23B 51/0453, B23B 51/0007, B23B 51/0008, B23B 51/0466
D	B23B 51/046	<administrative transfer to B23B 51/0453>
C	B23B 51/0466	B23B 51/0007, B23B 51/0008, B23B 51/04, B23B 51/0411, B23B 51/0417, B23B 51/0466, B23B 51/0467, B23B 51/0468, B23B 51/0469
D	B23B 51/048	<administrative transfer to B23B 51/00>
F	B23B 51/0486	B23B 51/063, B23B 51/066
F	B23B 51/0493	B23B 51/0007, B23B 51/0008, B23B 51/06, B23B 51/063, B23B 51/066, B23B 51/068, B23B 51/0682, B23B 51/0684, B23B 51/0686
C	B23B 51/06	B23B 51/06, B23B 51/063, B23B 51/066, B23B 51/068, B23B 51/0682, B23B 51/0684, B23B 51/0686
C	B23B 51/10	B23B 51/10, B23B 51/109
C	B23B 51/107	B23B 51/107, B23B 51/109
C	B23B 51/108	B23B 51/108, B23B 51/109, B23B 51/1085
C	B23B 2250/00	B23B 2250/00, B23B 2250/18
C	B23B 2250/12	B23B 2250/12, B23B 2250/121, B23B 2250/122, B23B 2250/123, B23B 2250/124
C	B23B 2251/00	B23B 2251/00, B23B 2251/16, B23B 2251/51, B23B 2251/74
F	B23B 2251/02	B23B 51/0003, B23B 51/0004, B23B 51/0005
C	B23B 2251/04	B23B 2251/04, B23B 2251/047, B23B 2251/048
C	B23B 2251/082	B23B 2251/082, B23B 2251/0825
C	B23B 2251/14	B23B 2251/14, B23B 2251/047, B23B 2251/048
C	B23B 2251/18	B23B 2251/18, B23B 2251/182, B23B 2251/185, B23B 2251/188
C	B23B 2251/24	B23B 2251/24, B23B 2251/249
C	B23B 2251/40	B23B 2251/40, B23B 2251/4011, B23B 2251/4012
C	B23B 2251/406	B23B 2251/406, B23B 2251/4062
D	B23B 2251/42	<administrative transfer to B23B 51/00>
D	B23B 2251/422	<administrative transfer to B23B 51/063>
D	B23B 2251/424	<administrative transfer to B23B 51/066>
D	B23B 2251/426	<administrative transfer to B23B 51/011>
D	B23B 2251/428	<administrative transfer to B23B 51/044>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	B23B 2251/44	B23B 2251/44, B23B 2251/448
F	B23B 2251/50	B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011
F	B23B 2251/505	B23B 51/0002, B23B 51/0003, B23B 51/00035, B23B 51/0004, B23B 51/0005, B23B 51/0006, B23B 51/0007, B23B 51/0008, B23B 51/0011
D	B23B 2251/54	<administrative transfer to B23B 51/0411>

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B23B 51/0002	B23B 51/00	NEW
B23B 51/0003	B23B 51/00	NEW
B23B 51/00035	B23B 51/00	NEW
B23B 51/0004	B23B 51/00	NEW
B23B 51/0005	B23B 51/00	NEW
B23B 51/0006	B23B 51/00	NEW
B23B 51/0007	B23B 51/00	NEW
B23B 51/0008	B23B 51/00	NEW
B23B 51/0009	B23B 51/00	DELETE
B23B 51/0011	B23B 51/00	NEW
B23B 51/0095	B23B 51/00	NEW
B23B 51/011	B23B 51/00	NEW
B23B 51/0406	B23B 51/04	DELETE
B23B 51/0411	B23B 51/04	NEW
B23B 51/0417	B23B 51/04	NEW
B23B 51/0433	B23B 51/04	DELETE
B23B 51/0446	B23B 51/04	DELETE
B23B 51/046	B23B 51/04	DELETE
B23B 51/0461	B23B 51/04	NEW
B23B 51/0467	B23B 51/04	NEW
B23B 51/0468	B23B 51/04	NEW
B23B 51/0469	B23B 51/04	NEW
B23B 51/048	B23B 51/04	DELETE
B23B 51/063	B23B 51/06	NEW
B23B 51/066	B23B 51/06	NEW
B23B 51/068	B23B 51/06	NEW
B23B 51/0682	B23B 51/06	NEW
B23B 51/0684	B23B 51/06	NEW
B23B 51/0686	B23B 51/06	NEW
B23B 51/1085	B23B 51/10	NEW
B23B 51/109	B23B 51/10	NEW
B23B 2250/121	CPCONLY	NEW
B23B 2250/122	CPCONLY	NEW
B23B 2250/123	CPCONLY	NEW
B23B 2250/124	CPCONLY	NEW
B23B 2250/18	CPCONLY	NEW
B23B 2251/047	CPCONLY	NEW
B23B 2251/048	CPCONLY	NEW
B23B 2251/0825	CPCONLY	NEW
B23B 2251/16	CPCONLY	NEW
B23B 2251/182	CPCONLY	NEW
B23B 2251/185	CPCONLY	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B23B 2251/188	CPCONLY	NEW
B23B 2251/249	CPCONLY	NEW
B23B 2251/4011	CPCONLY	NEW
B23B 2251/4012	CPCONLY	NEW
B23B 2251/4062	CPCONLY	NEW
B23B 2251/42	CPCONLY	DELETE
B23B 2251/422	CPCONLY	DELETE
B23B 2251/424	CPCONLY	DELETE
B23B 2251/426	CPCONLY	DELETE
B23B 2251/428	CPCONLY	DELETE
B23B 2251/448	CPCONLY	NEW
B23B 2251/51	CPCONLY	NEW
B23B 2251/54	CPCONLY	DELETE
B23B 2251/74	CPCONLY	NEW

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.