

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 128

DATE: OCTOBER 1, 2015

PROJECT RP0065

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

<b><u>Action</u></b>	<b><u>Subclass</u></b>	<b><u>Group(s)</u></b>
<b>Symbols deleted:</b>	B23K	26/0003
	B23K	26/0009 – 26/0051
	B23K	26/023
	B23K	26/026
	B23K	26/036
	B23K	26/038
	B23K	26/041
	B23K	26/045
	B23K	26/0621
	B23K	26/063 - 26/0639
	B23K	26/0656
	B23K	26/0807 - 26/0815
	B23K	26/121
	B23K	26/122
	B23K	26/1405 - 26/1417
	B23K	26/1441 - 26/1458
	B23K	26/203
	B23K	26/243
	B23K	26/246
	B23K	26/265
	B23K	26/285
	B23K	26/305
	B23K	26/3206 – 26/3233
	B23K	26/3246 – 26/3293
	B23K	26/345
	B23K	26/362
	B23K	26/365 - 26/367
	B23K	26/381
	B23K	26/383
	B23K	26/385
	B23K	26/386
	B23K	26/388
	B23K	26/4005 - 26/428
<i>The symbols B23K 26/122, B23K 26/322, B23K 26/362, B23K 26/386, B23K 26/388 and B23K 26/402 are deleted and newly created</i>		
<b>Symbols newly created:</b>		
	B23K	B23K 26/0342
	B23K	B23K 26/0344
	B23K	B23K 26/035
	B23K	26/037

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	B23K	26/042
	B23K	26/044
	B23K	26/0619
	B23K	26/062
	B23K	26/0622
	B23K	26/0624
	B23K	26/064
	B23K	26/066
	B23K	26/082
	B23K	26/0821
	B23K	26/122
	B23K	26/1224
	B23K	26/142
	B23K	26/1436
	B23K	26/1437
	B23K	26/1438
	B23K	26/144
	B23K	26/146
	B23K	26/1462
	B23K	26/21
	B23K	26/211
	B23K	26/242
	B23K	26/244
	B23K	26/262
	B23K	26/282
	B23K	26/302
	B23K	26/322
	B23K	26/323
	B23K	26/342
	B23K	26/346
	B23K	26/348
	B23K	26/351
	B23K	26/352
	B23K	26/354
	B23K	26/356
	B23K	26/359
	B23K	26/361
	B23K	26/362
	B23K	26/364
	B23K	26/382
	B23K	26/384
	B23K	26/386
	B23K	26/388
	B23K	26/389
	B23K	26/402
	B23K	26/50
	B23K	26/53
	B23K	26/55
	B23K	26/57
	B23K	26/60
	B23K	26/70
	B23K	26/702

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	B23K	26/703
	B23K	26/704
	B23K	26/705
	B23K	26/706
	B23K	26/707
	B23K	2201/35
	B23K	2203/05
	B23K	2203/15
	B23K	2203/166
	B23K	2203/172
	B23K	2203/26
	B23K	2203/30
	B23K	2203/32
	B23K	2203/34
	B23K	2203/36
	B23K	2203/38
	B23K	2203/40
	B23K	2203/42
	B23K	2203/50
	B23K	2203/52
	B23K	2203/54
	B23K	2203/56
<i>The symbols B23K 26/122, B23K 26/322, B23K 26/362, B23K 26/386, B23K 26/388 and B23K 26/402 are deleted and newly created</i>		
<b>Title wording change:</b>	B23K	26/00
	B23K	26/0006
	B23K	26/009 - 26/0093
	B23K	26/03
	B23K	26/034
	B23K	26/046
	B23K	26/06
	B23K	26/0608 - 26/0613
	B23K	26/0626
	B23K	26/126
	B23K	26/14
	B23K	26/147 – 26/1482
	B23K	26/16 - 26/20
	B23K	26/324
	B23K	26/34
	B23K	26/36
	B23K	2201/34
	B23K	2203/16
<b>Indent Change:</b>	B23K	26/0626
	B23K	26/22
	B23K	26/24
	B23K	26/26
	B23K	26/28
	B23K	26/30

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<b>New/modified/deleted Definitions (no frozen (F)symbol definitions should be deleted):</b>	B23K	26/00
	B23K	26/0003
	B23K	26/006
	B23K	26/0066
	B23K	26/02
	B23K	26/0626
	B23K	26/066
	B23K	26/08
	B23K	26/12
	B23K	26/126
	B23K	26/14
	B23K	26/16
	B23K	26/18
	B23K	26/20
	B23K	26/211
	B23K	26/32
	B23K	26/322
	B23K	26/324
	B23K	26/34
	B23K	26/36
	B23K	26/40
	B23K	26/402
	B23K	26/705
	B23K	26/706
	B23K	26/0821
<b>Scheme Warning Notices to be added/modified/deleted:</b>	B23K	26/00
	B23K	26/02
	B23K	26/037
	B23K	26/06
	B23K	26/062
	B23K	26/20
	B23K	26/21
	B23K	26/32
	B23K	26/322
	B23K	26/346
	B23K	26/352
	B23K	26/36
	B23K	26/50
	B23K	2201/34
	B23K	2201/35
	B23K	2203/00
	B23K	2203/04
	B23K	2203/05
	B23K	2203/08
	B23K	2203/15
	B23K	2203/16
	B23K	2203/166
	B23K	2203/18

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	B23K	2203/26
	B23K	2203/30
	B23K	2203/50
<b>Scheme Notes to be added/modified/deleted:</b>	B23K	26/00

**The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):**

*B23K26/08, B23K37/00, B28D, B28D5/00, B29C59/007, B29C59/16, B29C66/1122, B60J1/00, C04B2237/52, C09J5/00, C14B1/56, C14B5/00, D06H7/22, F16P1/06, H01C, H01C17/242, H01L23/00*

**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 Notice(s)
  - C. New, Modified or Deleted Note(s)
  - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
  - A. DEFINITIONS (Full definition template)
  - B. DEFINITIONS (Definitions Quick Fix)
3.  REVISION CONCORDANCE LIST (RCL)
4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5.  CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS B23K - SOLDERING OR UNSOLDERING; WELDING; CLADDING OR PLATING BY SOLDERING OR WELDING; CUTTING BY APPLYING HEAT LOCALLY, e.g. FLAME CUTTING; WORKING BY LASER BEAM (making metal-coated products by extruding metal B21C23/22; building up linings or coverings by casting B22D19/08 ; casting by dipping B22D23/04 ; manufacture of composite layers by sintering metal powder B22F7/00 ; arrangements on machine tools for copying or controlling B23Q ; covering metals or covering materials with metals, not otherwise provided for C23C ; burners F23D )**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
C	B23K 26/00		Working by laser beam, e.g. welding, cutting or boring	B23K 26/00 B23K 26/346 B23K 26/348 B23K 26/50 B23K 26/53 B23K 26/55 B23K 26/57
D	B23K 26/0003			Administrative transfer to B23K 26/351
E	B23K 26/0006	1	{taking account of the properties of the material involved (B23K 26/32, B23K 26/40 take precedence)}	
D	B23K 26/0009			Administrative transfer to B23K26/0006 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/0012			Administrative transfer to B23K26/0006 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/0015			Administrative transfer to B23K26/0006 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/0018			Administrative transfer to B23K26/0006 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/0021			Administrative transfer to B23K26/0006 and B23K2203/00 ADD INFO simultaneously

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D	B23K 26/0024			Administrative transfer to B23K26/0006 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/0027			Administrative transfer to B23K26/0006 and B23K2203/32 ADD INFO simultaneously
D	B23K 26/003			Administrative transfer to B23K26/0006 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/0033			Administrative transfer to B23K26/0006 and B23K2203/40 ADD INFO simultaneously
D	B23K 26/0036			Administrative transfer to B23K26/0006 and B23K2203/42 ADD INFO simultaneously
D	B23K 26/0039			Administrative transfer to B23K26/0006 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/0042			Administrative transfer to B23K26/0006 and B23K2203/56 ADD INFO simultaneously
D	B23K 26/0045			Administrative transfer to B23K26/0006 and B23K2203/52 ADD INFO simultaneously
D	B23K 26/0048			Administrative transfer to B23K26/0006 and B23K2203/16 ADD INFO simultaneously
D	B23K 26/0051			Administrative transfer to B23K26/0006 and B23K2201/34 ADD INFO simultaneously
U	B23K 26/0054	1	{Working by transmitting the laser beam within the workpiece}	
U	B23K 26/0057	2	{by modifying or reforming the material inside the workpiece, e.g. for producing break initiation cracks}	
U	B23K 26/006	2	{by creating voids inside the workpiece, e.g. for forming flow passages or flow	

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			patterns}	
U	B23K 26/0063	2	{the laser beam entering a face of the workpiece from which it is transmitted through the workpiece material to work on a face remote from the face where the laser beam entered the workpiece, e.g. for effecting removal, fusion splicing, modifying or reforming}	
U	B23K 26/0066	1	{for surface treatment ( for changing the physical structure of ferrous metals or alloys C21D, of non-ferrous metals or alloys C22F; for alloying C23C; annealing crystalline material C30B 33/02 ; laser treatment of semiconductors H01L)}	
U	B23K 26/0069	2	{Laser shock processing (modifying the physical properties of ferrous metals by laser shock processing C21D 10/005)}	
U	B23K 26/0072	2	{Modifying rugosity}	
U	B23K 26/0075	3	{Diminishing rugosity, e.g. grinding; Polishing; Smoothing}	
U	B23K 26/0078	3	{Increasing rugosity, e.g. roughening}	
U	B23K 26/0081	2	{by melting (laser re-melting of metals by wave energy C22B 9/22 ; laser melting of glass C03C; laser melting for crystal growth C30B)}	
U	B23K 26/0084	2	{Texturing}	
U	B23K 26/0087	2	{by providing a line or line pattern, e.g. a dotted break initiation line}	
M	B23K 26/009	1	{using a non-absorbing, e.g. transparent, reflective or refractive, layer on the workpiece (using a mask on the workpiece B23K 26/066)}	
M	B23K 26/0093	1	{combined with mechanical machining or metal-working covered by other subclasses than B23K(combined welding or cutting procedures or apparatus B23K 28/02)}	
U	B23K 26/0096	1	{Portable laser equipment, e.g. hand-held laser apparatus (Surgical laser instruments A61B 18/20, Dental Lasers A61C 1/0046, Hand-held laser dental apparatus for curing resins A61C 19/004)}	
E	B23K 26/02	1	Positioning or observing the workpiece, e.g. with respect to the point of impact ; Aligning, aiming or focusing the laser	



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			beam	
D	B23K 26/023			Administratively transfer to B23K26/037
D	B23K 26/026			Administrative transfer to B23K 26/035
M	B23K 26/03	2	Observing, e.g. monitoring, the workpiece	
U	B23K 26/032	3	{using optical means}	
M	B23K 26/034	3	{Observing the temperature of the workpiece}	
N	B23K 26/0342	3	{Observing magnetic fields related to the workpiece}	
N	B23K 26/0344	3	{Observing the speed of the workpiece}	
N	B23K 26/035	2	Aligning the laser beam (automatically B23K 26/042)	
D	B23K 26/036			Administrative transfer to B23K 26/0342
Q	B23K 26/037	3	{by pressing on the workpiece, e.g. pressing roller foot}	B23K 26/037 B23K 26/02
D	B23K 26/038			Administrative transfer to B23K 26/0344
U	B23K 26/04	2	Automatically aligning, aiming or focusing the laser beam, e.g. using the back-scattered light	
D	B23K 26/041			Administrative transfer to B23K 26/042
N	B23K 26/042	3	Automatically aligning the laser beam	
U	B23K 26/043	4	{along the beam path, i.e. alignment of laser beam axis relative to laser beam apparatus}	
N	B23K 26/044	3	Seam tracking	
D	B23K 26/045			Administrative transfer to B23K 26/044
M	B23K 26/046	3	Automatically focusing the laser beam	
U	B23K 26/048	4	{by controlling the distance between laser head and workpiece}	
C	B23K 26/06	2	Shaping the laser beam, e.g. by masks or multi-focusing	B23K 26/06 B23K 26/062
U	B23K 26/0604	3	{by a combination of beams}	
M	B23K 26/0608	4	{in the same heat affected zone [HAZ] ( B23K 26/0613 , B23K 26/0619 take precedence)}	
M	B23K 26/0613	4	{having a common axis (B23K 26/0619 takes precedence)}	
U	B23K 26/0617	5	{and with spots spaced along the common axis}	
N	B23K 26/0619	4	{with spots located on opposed surfaces}	

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			of the workpiece}	
N	B23K 26/062	3	by direct control of the laser beam	
D	B23K 26/0621			Administrative transfer to B23K 26/0619
N	B23K 26/0622	4	by shaping pulses	
N	B23K 26/0624	5	{using ultrashort pulses, i.e. pulses of 1ns or less}	
M	B23K 26/0626	4	{Energy control of the laser beam (B23K26/0622 takes precedence)}	
D	B23K 26/063			Administrative transfer to B23K 26/0622
D	B23K 26/0635			Administrative transfer to B23K 26/0624
D	B23K 26/0639			Administrative transfer to B23K 26/064
N	B23K 26/064	3	by means of optical elements, e.g. lenses, mirrors or prisms	
U	B23K 26/0643	4	{comprising mirrors}	
U	B23K 26/0648	4	{comprising lenses}	
U	B23K 26/0652	4	{comprising prisms}	
D	B23K 26/0656			Administrative transfer to B23K 26/066
N	B23K 26/066	4	by using masks	
U	B23K 26/0661	5	{disposed on the workpiece}	
U	B23K 26/0665	3	{by beam condensation on the workpiece, e.g. for focusing}	
U	B23K 26/067	3	Dividing the beam into multiple beams, e.g. multifocusing	
U	B23K 26/0673	4	{into independently operating sub-beams, e.g. beam multiplexing to provide laser beams for several stations}	
U	B23K 26/0676	4	{into dependently operating sub-beams, e.g. an array of spots with fixed spatial relationship or for performing simultaneously identical operations}	
U	B23K 26/073	3	Shaping the laser spot	
U	B23K 26/0732	4	{into a rectangular shape}	
U	B23K 26/0734	4	{into an annular shape}	
U	B23K 26/0736	4	{into an oval shape, e.g. elliptic shape}	
U	B23K 26/0738	4	{into a linear shape}	
U	B23K 26/08	1	Devices involving relative movement between laser beam and workpiece	
D	B23K 26/0807			Administrative transfer to B23K 26/082
D	B23K 26/0815			Administrative transfer to B23K 26/0821
N	B23K 26/082	2	Scanning systems, i.e. devices involving	

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			movement of the laser beam relative to the laser head	
N	B23K 26/0821	3	{using multifaceted mirrors, e.g. polygonal mirror}	
U	B23K 26/0823	2	{Devices involving rotation of the workpiece}	
U	B23K 26/083	2	{Devices involving movement of the workpiece in at least one axial direction}	
U	B23K 26/0838	3	{by using an endless conveyor belt}	
U	B23K 26/0846	4	{for moving elongated workpieces longitudinally, e.g. wire or strip material}	
U	B23K 26/0853	3	{Devices involving movement of the workpiece in at least in two axial directions, e.g. in a plane}	
U	B23K 26/0861	4	{in at least in three axial directions}	
U	B23K 26/0869	2	{Devices involving movement of the laser head in at least one axial direction}	
U	B23K 26/0876	3	{in at least two axial directions}	
U	B23K 26/0884	4	{in at least in three axial directions, e.g. manipulators, robots}	
U	B23K 26/103	3	{the laser beam rotating around the fixed workpiece (B23K 26/28 takes precedence)}	
U	B23K 26/106	4	{inside the workpiece}	
U	B23K 26/12	1	in a special atmosphere, e.g. in an enclosure	
D	B23K 26/121	Second action after transfer of 26/122		Administrative transfer to B23K 26/122
				Document families currently classified in B23K 26/122 should transfer to B23K 26/1224 prior to transferring documents from B23K 26/121 to B23K 26/122
N	B23K 26/122	2	in a liquid, e.g. underwater	
N	B23K 26/1224	2	{in vacuum}	
D	B23K 26/122	First action before deleting 26/121		Administrative transfer to B23K 26/1224
				Document families

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				currently classified in B23K 26/122 should transfer to B23K 26/1224 prior to transferring documents from B23K 26/121 to B23K 26/122
U	B23K 26/123	2	{in an atmosphere of particular gases}	
U	B23K 26/125	3	{of mixed gases}	
M	B23K 26/126	2	{in an atmosphere of gases chemically reacting with the workpiece}	
U	B23K 26/127	2	{in an enclosure}	
U	B23K 26/128	3	{Laser beam path enclosures}	
M	B23K 26/14	1	using a fluid stream, e.g. a jet of gas, in conjunction with the laser beam; Nozzles therefor ( B23K 26/12 takes precedence )	
D	B23K 26/1405			Administrative transfer to B23K 26/142
D	B23K 26/1411			Administrative transfer to B23K 26/144
D	B23K 26/1417			Administrative transfer to B23K 26/146
N	B23K 26/142	2	for the removal of by-products	
U	B23K 26/1423	2	{the flow carrying an electric current}	
U	B23K 26/1429	3	{the flow carrying an electric arc, e.g. laser arc hybrid welding}	
U	B23K 26/1435	2	{involving specially adapted flow control means}	
N	B23K 26/1436	3	{for pressure control}	
N	B23K 26/1437	3	{for flow rate control}	
N	B23K 26/1438	3	{for directional control}	
N	B23K 26/144	2	the fluid stream containing particles, e.g. powder	
D	B23K 26/1441			Administrative transfer to B23K 26/1436
D	B23K 26/1447			Administrative transfer to B23K 26/1437
D	B23K 26/1452			Administrative transfer to B23K 26/1438
D	B23K 26/1458			Administrative transfer to B23K 26/1462
N	B23K 26/146	2	the fluid stream containing a liquid	
N	B23K 26/1462	2	{Nozzles; Features related to nozzles}	
U	B23K 26/1464	3	{Supply to, or discharge from, nozzles of media, e.g. gas, powder, wire}	
M	B23K 26/147	4	{Features outside the nozzle for feeding the fluid stream towards the workpiece}	
M	B23K 26/1476	4	{Features inside the nozzle for feeding	

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			the fluid stream through the nozzle }	
M	B23K 26/1482	3	{Detachable nozzles, e.g. exchangeable or provided with breakaway lines }	
U	B23K 26/1488	3	{Means for protecting nozzles, e.g. the tip surface (by breakaway lines B23K 26/1482)}	
U	B23K 26/1494	3	{Maintenance of nozzles }	
M	B23K 26/16	1	Removal of by-products, e.g. particles or vapours produced during treatment of a workpiece (by a fluid stream B23K 26/142)	
M	B23K 26/18	1	using absorbing layers on the workpiece, e.g. for marking or protecting purposes	
C	B23K 26/20	1	Bonding (soldering by means of radiant energy B23K 1/005; joining of preformed plastics parts by heating using laser beam B29C 65/16)	B23K 26/20 B23K 26/21
D	B23K 26/203			Administrative transfer to B23K 26/211
U	B23K 26/206	2	{Laser sealing }	
N	B23K 26/21	2	by welding	
N	B23K 26/211	3	with interposition of special material to facilitate connection of the parts	
M	B23K 26/22	3	Spot welding	
M	B23K 26/24	3	Seam welding	
N	B23K 26/242	4	Fillet welding, i.e. involving a weld of substantially triangular cross section joining two parts	
D	B23K 26/243			Administrative transfer to B23K 26/242
N	B23K 26/244	4	Overlap seam welding	
D	B23K 26/246			Administrative transfer to B23K 26/244
M	B23K 26/26	4	of rectilinear seams	
N	B23K 26/262	5	of longitudinal seams of tubes	
D	B23K 26/265			Administrative transfer to B23K 26/262
M	B23K 26/28	4	of curved planar seams	
N	B23K 26/282	5	of tube sections	
D	B23K 26/285			Administratively transferred to B23K 26/282
M	B23K 26/30	4	of three-dimensional seams	
N	B23K 26/302	5	of helicoidal seams	
D	B23K 26/305			Administratively transferred to B23K 26/302

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
E	B23K 26/32	2	taking account of the properties of the material involved	
D	B23K 26/3206			Administrative transfer to B23K26/32 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/3213			Administrative transfer to B23K26/32 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/322	First action before deleting 26/3293		Administrative transfer to B23K26/32 and B23K2203/08 ADD INFO simultaneously
				Document families currently classified in B23K26/322 should transfer to B23K26/32 and B23K2203/08 ADD INFO prior to transferring documents from group B23K26/3293 to B23K26/322
D	B23K 26/3226			Administrative transfer to B23K26/32 and B23K2203/08 ADD INFO simultaneously
N	B23K 26/322	3	involving coated metal parts (using absorbing layers on the workpiece B23K 26/18)	
N	B23K 26/323	3	involving parts made of dissimilar metallic material	
D	B23K 26/3233			Administratively transferred to B23K 26/323
E	B23K 26/324	3	involving non-metallic parts	
D	B23K 26/3246			Administrative transfer to B23K26/324 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/3253			Administrative transfer to B23K26/324 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/326			Administrative transfer to B23K26/324 and

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				B23K2203/40 ADD INFO simultaneously
D	B23K 26/3266			Administrative transfer to B23K26/32 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/3273			Administrative transfer to B23K26/32 and B23K2203/52 ADD INFO simultaneously
D	B23K 26/328			Administrative transfer to B23K26/32 and B23K2203/16 ADD INFO simultaneously
D	B23K 26/3286			Administrative transfer to B23K26/32 and B23K2201/35 ADD INFO simultaneously
D	B23K 26/3293	Second action after transfer from 26/322		Administrative transfer to B23K26/322 and B23K2201/34 ADD INFO simultaneously
				Document families currently classified in B23K26/322 should transfer to B23K26/32 and B23K2203/08 ADD INFO prior to transferring documents from group B23K26/3293 to B23K26/322
M	B23K 26/34	1	Laser welding for purposes other than joining	
N	B23K 26/342	2	Build-up welding	
D	B23K 26/345			Administratively transferred to B23K 26/342
N	B23K 26/346	1	in combination with welding or cutting covered by groups B23K 5/00-B23K 25/00, e.g. in combination with resistance welding	
N	B23K 26/348	2	in combination with arc heating, e.g. TIG [tungsten inert gas], MIG [metal inert gas] or plasma welding (laser beam for starting a welding or cutting arc B23K 9/067)	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	B23K 26/351	1	for trimming or tuning of electrical components	
N	B23K 26/352	1	for surface treatment	
N	B23K 26/354	2	by melting	
N	B23K 26/356	2	by shock processing	
N	B23K 26/359	2	by providing a line or line pattern, e.g. a dotted break initiation line	
C	B23K 26/36	1	Removing material (B23K 26/55, B23K 26/57 take precedence)	B23K 26/36 B23K 26/55 B23K 26/57
N	B23K 26/361	2	for deburring or mechanical trimming (B23K 26/351 takes precedence)	
D	B23K 26/362	First action before transfer from 26/365		Administratively transferred to B23K 26/361
				Document families currently classified in B23K 26/362 should transfer to B23K 26/361 prior to transferring document families from B23K 26/365 to B23K 26/362
N	B23K 26/362	2	Laser etching	
N	B23K 26/364	3	for making a groove or trench, e.g. for scribing a break initiation groove	
D	B23K 26/365	Second action after deletion of 26/362		Administratively transferred to B23K 26/362
				Document families currently classified in B23K 26/362 should transfer to B23K 26/361 prior to transferring document families from B23K 26/365 to B23K 26/362
D	B23K 26/367			Administratively transferred to B23K 26/364
U	B23K 26/38	2	by boring or cutting	
D	B23K 26/381			Administratively



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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				transferred to B23K 26/382
N	B23K 26/382	3	by boring	
D	B23K 26/383			Administratively transferred to B23K 26/384
N	B23K 26/384	4	of specially shaped holes	
D	B23K 26/385	Third action after 26/386 is deleted and newly created		Administratively transferred to B23K 26/386
				Document families currently classified in B23K 26/386 should transfer to B23K 26/388 prior to transferring document families from B23K 26/385 to B23K 26/386
D	B23K 26/386	Second action before deletion of 26/385 and after 26/388 is deleted and newly created		Administratively transferred to B23K 26/388
				Document families currently classified in B23K 26/386 should transfer to B23K 26/388 prior to transferring document families from B23K 26/385 to B23K 26/386
N	B23K 26/386	4	of blind holes	
D	B23K 26/388	First action before deletion of 26/386		Administratively transferred to B23K 26/389

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
				Document families currently classified in B23K 26/388 should transfer to B23K 26/389 prior to transferring document families from B23K 26/388 to B23K 26/388
N	B23K 26/388	4	Trepanning, i.e. boring by moving the beam spot about an axis	
N	B23K 26/389	4	{of fluid openings, e.g. nozzles, jets (laser machining of inkjet nozzles B41J 2/1634)}	
E	B23K 26/40	2	taking account of the properties of the material involved	
D	B23K 26/4005			Administrative transfer to B23K26/40 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/401			Administrative transfer to B23K26/40 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/4015			Administrative transfer to B23K26/40 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/402	First action before deletion of 26/4025		Administrative transfer to B23K26/40 and B23K2203/50 ADD INFO simultaneously
				Document families currently classified in B23K 26/402 should transfer to B23K 26/40 and B23K 2203/50 prior to transferring documents families from B23K 26/4025 to B23K 26/402
N	B23K 26/402	3	involving non-metallic material, e.g. isolators	
D	B23K 26/4025	Second action after transfer from		Administrative transfer to B23K26/402

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
		26/402		
				Document families currently classified in B23K 26/402 should transfer to B23K 26/40 and B23K 2203/50 prior to transferring documents families from B23K 26/4025 to B23K 26/402
D	B23K 26/403			Administrative transfer to B23K26/402 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/4035			Administrative transfer to B23K26/402 and B23K2203/32 ADD INFO simultaneously
D	B23K 26/404			Administrative transfer to B23K26/402 and B23K2203/34 ADD INFO simultaneously
D	B23K 26/4045			Administrative transfer to B23K26/402 and B23K2203/36 ADD INFO simultaneously
D	B23K 26/405			Administrative transfer to B23K26/402 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/4055			Administrative transfer to B23K26/402 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/406			Administrative transfer to B23K26/402 and B23K2203/40 ADD INFO simultaneously
D	B23K 26/4065			Administrative transfer to B23K26/402 and B23K2203/42 ADD INFO simultaneously
D	B23K 26/407			Administrative transfer to B23K26/40 and B23K2203/50 ADD INFO
D	B23K 26/4075			Administrative transfer to B23K26/40 and B23K2203/50 ADD INFO simultaneously

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
D	B23K 26/408			Administrative transfer to B23K26/40 and B23K2203/52 ADD INFO simultaneously
D	B23K 26/4085			Administrative transfer to B23K26/40 and B23K2203/16 ADD INFO simultaneously
D	B23K 26/409			Administrative transfer to B23K26/40 and B23K2203/172 ADD INFO simultaneously
D	B23K 26/4095			Administrative transfer to B23K26/40 and B23K2201/35 ADD INFO simultaneously
D	B23K 26/42			Administratively transferred to B23K 26/70
D	B23K 26/421			Administratively transferred to B23K 26/60
D	B23K 26/422			Administratively transferred to B23K 26/702
D	B23K 26/423			Administratively transferred to B23K 26/703
D	B23K 26/425			Administratively transferred to B23K 26/704
D	B23K 26/426			Administratively transferred to B23K 26/705
D	B23K 26/427			Administratively transferred to B23K 26/706
D	B23K 26/428			Administratively transferred to B23K 26/707
N	B23K 26/50	1	Working by transmitting the laser beam through or within the workpiece	
N	B23K 26/53	2	for modifying or reforming the material inside the workpiece, e.g. for producing break initiation cracks	
N	B23K 26/55	2	for creating voids inside the workpiece, e.g. for forming flow passages or flow patterns	
N	B23K 26/57	2	the laser beam entering a face of the	

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			workpiece from which it is transmitted through the workpiece material to work on a different workpiece face, e.g. for effecting removal, fusion splicing, modifying or reforming	
N	B23K 26/60	1	Preliminary treatment	
N	B23K 26/70	1	Auxiliary operations or equipment	
N	B23K 26/702	2	{Auxiliary equipment}	
N	B23K 26/703	3	{Cooling arrangements (by using a fluid stream B23K 26/14)}	
N	B23K 26/704	3	{Beam dispersers, e.g. beam wells}	
N	B23K 26/705	3	{Beam measuring device}	
N	B23K 26/706	3	{Protective screens}	
N	B23K 26/707	3	{for monitoring laser beam transmission optics}	
C	B23K2201/34	1	Coated articles, e.g. plated or painted; Surface treated articles	B23K 2201/34 B23K 2201/35
N	B23K2201/35	2	Surface treated articles	
C	B23K2203/00		Materials to be soldered, welded or cut	B23K 2203/00 B23K 2203/30 B23K 2203/32 B23K 2203/34 B23K 2203/36 B23K 2203/38 B23K 2203/40 B23K 2203/42 B23K 2203/50 B23K 2203/52 B23K 2203/54 B23K 2203/56
U	B23K2203/02	1	Iron or ferrous alloys	
C	B23K2203/04	2	Steel or steel alloys	B23K 2203/04 B23K 2203/05
N	B23K2203/05	3	Stainless steel	
U	B23K2203/06	2	Cast-iron alloys	
C	B23K2203/08	1	Non-ferrous metals or alloys	B23K 2203/08 B23K 2203/15
U	B23K2203/10	2	Aluminium or alloys thereof	
U	B23K2203/12	2	Copper or alloys thereof	
U	B23K2203/14	2	Titanium or alloys thereof	
N	B23K2203/15	2	Magnesium or alloys thereof	
C	B23K2203/16	1	Composite materials, e.g. fibre reinforced	B23K 2203/16 B23K 2203/166 B23K 2203/172
N	B23K2203/166	2	Multilayered materials	
N	B23K2203/172	3	wherein at least one of the layers is non-metallic	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to<sup>#</sup></b>
C	B23K2203/18	1	Dissimilar materials	B23K 2203/18 B23K 2203/26
U	B23K2203/20	2	Ferrous alloys and aluminium or alloys thereof	
U	B23K2203/22	2	Ferrous alloys and copper or alloys thereof	
U	B23K2203/24	2	Ferrous alloys and titanium or alloys thereof	
N	B23K2203/26	2	Alloys of Nickel and Cobalt and Chromium	
N	B23K2203/30	1	Organic material	
N	B23K2203/32	2	Material from living organisms, e.g. skins	
N	B23K2203/34	3	Leather	
N	B23K2203/36	2	Wood or similar materials	
N	B23K2203/38	2	Fabrics, fibrous materials	
N	B23K2203/40	2	Paper	
N	B23K2203/42	2	Plastics (B23K2203/16 takes precedence)	
N	B23K2203/50	1	Inorganic material, e.g. metals, not provided for in B23K2203/02 – B23K2203/26	
N	B23K2203/52	2	Ceramics	
N	B23K2203/54	2	Glass	
N	B23K2203/56	2	semiconducting (semiconducting devices B23K2201/40)	

\*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 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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.

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- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

**SUBCLASS B23K - SOLDERING OR UNSOLDERING; WELDING; CLADDING OR PLATING BY SOLDERING OR WELDING; CUTTING BY APPLYING HEAT LOCALLY, e.g. FLAME CUTTING; WORKING BY LASER BEAM (making metal-coated products by extruding metal B21C23/22; building up linings or coverings by casting B22D19/08 ; casting by dipping B22D23/04 ; manufacture of composite layers by sintering metal powder B22F7/00 ; arrangements on machine tools for copying or controlling B23Q ; covering metals or covering materials with metals, not otherwise provided for C23C ; burners F23D )**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	B23K26/00		Group B23K26/00 is impacted by reclassification into groups B23K26/346 – B23K26/348, B23K26/352 – B23K26/359 and B23K26/50 – B23K26/57. All groups listed in this Warning should be considered in order to perform a complete search.
N	B23K26/02		Group B23K26/02 is incomplete pending reclassification of documents from group B23K26/037. Groups B23K26/02 and B23K26/037 should be considered in order to perform a complete search.
N	B23K26/037		Group B23K26/037 is impacted by reclassification into group B23K26/02. Groups B23K26/037 and B23K26/02 should be considered in order to perform a complete search.
N	B23K26/06		Group B23K26/06 is impacted by reclassification into group B23K26/062. Groups B23K26/06 and B23K26/062 should be considered in order to perform a complete search.
N	B23K26/062		Group B23K26/062 is incomplete pending reclassification of documents from group B23K26/06. Groups B23K26/06 and B23K26/062 should be considered in order to perform a complete search.
N	B23K26/20		Group B23K26/20 is impacted by reclassification into groups B23K26/21. Groups B23K26/20 and B23K26/21 should be considered in order to perform a complete search.
N	B23K26/21		Group B23K26/21 is incomplete pending reclassification of documents from group B23K26/20. Groups B23K26/20 and B23K26/21 should be considered in order to perform a complete search.
N	B23K26/32		Group B23K26/32 is incomplete



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			pending reclassification of documents from group B23K26/322. Groups B23K26/32 and B23K26/322 should be considered in order to perform a complete search.
N	B23K26/322		Group B23K26/322 is impacted by reclassification into group B23K26/32. Groups B23K26/322 and B23K26/32 should be considered in order to perform a complete search.
N	B23K26/346		Groups B23K26/346 - B23K26/348 are incomplete pending reclassification of documents from group B23K26/00. Until reclassification is complete, group B23K26/00 should be considered in order to perform a complete search.
N	B23K26/352		Groups B23K26/352 - B23K26/359 are incomplete pending reclassification of documents from group B23K26/00. Groups B23K26/00 and B23K26/352 - B23K26/359 should be considered in order to perform a complete search.
N	B23K26/36		Group B23K26/36 is impacted by reclassification into groups B23K26/36 and B23K26/55 - B23K26/57. Groups B23K26/36 and B23K26/55 - B23K26/57 should be considered in order to perform a complete search.
N	B23K26/50		Groups B23K26/50 - B23K26/57 are incomplete pending reclassification of documents from groups B23K26/00 and B23K26/36. Groups B23K26/00, B23K26/36 and B23K26/50 - B23K26/57 should be considered in order to perform a complete search.
N	B23K 2201/34		Group B23K 2201/34 is impacted by reclassification into group B23K 2201/35. Groups B23K 2201/34 and B23K 2201/35 should be considered in order to perform a complete search.
N	B23K 2201/35		Group B23K 2201/35 is incomplete pending reclassification from B23K 2201/34. Groups B23K 2201/34 and B23K 2201/35 should be considered in order to perform a complete search..
N	B23K 2203/00		Group B23K 2203/00 is impacted by reclassification into groups B23K 2203/50 - B23K 2203/56. Groups B23K 2203/00 and B23K 2203/50 - B23K 2203/56 should be considered in order to perform a complete search.
N	B23K 2203/04		Group B23K 2203/04 is impacted by reclassification into group B23K

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			2203/05. Groups B23K 2203/04 and B23K 2203/05 should be considered in order to perform a complete search.
N	B23K 2203/05		Group B23K 2203/05 is incomplete pending reclassification from B23K 2203/04. Groups B23K26/2203/04 and B23K26/05 should be considered in order to perform a complete search.
N	B23K 2203/08		Group B23K 2203/08 is impacted by reclassification into group B23K 2203/15. Groups B23K 2203/08 and B23K 2203/15 should be considered in order to perform a complete search.
N	B23K 2203/15		Group B23K 2203/15 is incomplete pending reclassification of documents from group B23K 2203/08. Groups B23K 2203/15 and B23K 2203/15 should be considered in order to perform a complete search.
N	B23K 2203/16		Group B23K 2203/16 is impacted by reclassification into groups B23K 2203/166 – B23K 2203/172. Groups B23K 2203/16 and B23K 2203/166 – B23K 2203/172 should be considered in order to perform a complete search.
N	B23K 2203/166		Groups B23K 2203/166 - B23K 2203/172 are incomplete pending reclassification from B23K 2203/16. Groups B23K 2203/16 and B23K 2203/166 – B23K2203/172 should be considered in order to perform a complete search
N	B23K 2203/18		Group B23K 2203/18 is impacted by reclassification into group B23K 2203/26. Group B23K 2203/18 and B23K 2203/26 should be considered in order to perform a complete search.
N	B23K 2203/26		Group B23K 2203/26 is incomplete pending reclassification of documents from group B23K 2203/18. Groups B23K 2203/26 and B23K2203/18 should be considered in order to perform a complete search.
N	B23K 2203/30		Groups B23K 2203/30- B23K 2203/42 are incomplete pending reclassification from B23K 2203/00. Groups B23K 2203/00 and B23K 2203/30 – B23K2203/42 should be considered in order to perform a complete search
N	B23K 2203/50		Groups B23K 2203/50 - B23K 2203/56 are incomplete pending reclassification from B23K 2203/00 and B23K 2203/50. Groups B23K 2203/00 and B23K 2203/50 – B23K 2203/56 should

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			be considered in order to perform a complete search.
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\*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.

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C. New, Deleted, and Modified Note(s)

**SUBCLASS B23K - SOLDERING OR UNSOLDERING; WELDING; CLADDING OR PLATING BY SOLDERING OR WELDING; CUTTING BY APPLYING HEAT LOCALLY, e.g. FLAME CUTTING; WORKING BY LASER BEAM (making metal-coated products by extruding metal B21C23/22; building up linings or coverings by casting B22D19/08 ; casting by dipping B22D23/04 ; manufacture of composite layers by sintering metal powder B22F7/00 ; arrangements on machine tools for copying or controlling B23Q ; covering metals or covering materials with metals, not otherwise provided for C23C ; burners F23D )**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	B23K26/00		Note(s)  (1) This main group <u>covers</u> : <ul style="list-style-type: none"> <li>• laser working for making a weakened layer, with or without removing material;</li> <li>• laser shock processing;</li> <li>• apparatus for laser surface treatment;</li> <li>• laser ablation.</li> </ul> (2) This main group <u>does not cover</u> : <ul style="list-style-type: none"> <li>• laser assisted deposition which is covered by subclass C23C;</li> <li>• laser sintering which is covered by group B22F 3/105 for metallic powder, by group B29C 67/04 for plastics, by group C03B 19/06 for glass or by group C04B 35/64 for ceramics;</li> <li>• laser assisted chemical etching which is covered by group C23F 1/00.</li> </ul>

\*N = new note, M = modified note, D = deleted note

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

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## 2. A. DEFINITIONS (i.e. new or modified)

### B23K26/00

#### Definition statement

This group covers:

Laser scribing for making a weakened layer, even without notching.

Laser shock processing.

Apparatuses for laser surface treatment.

Laser ablation

#### References relevant to classification in this group

*This group does not cover:*

Laser sintering of metallic powder	B22F 3/105
{Rapid manufacturing and prototyping of 3D objects by additive depositing, agglomerating or laminating of plastics material, e.g. by selective laser sintering	B29C67/0051
Laser sintering of plastics	B29C 67/04
Laser marking for applying identification marks	B41M5/24
Laser sintering of glass	C03B19/06
Laser sintering of ceramics	C04B35/64
Re-melting metals	C22B9/00
Laser assisted deposition	C23C
Laser assisted chemical etching	C23F1/00
Measuring length, thickness, angles, areas, irregularities of surfaces using laser	G01B
Originals for photomechanical production of textured or patterned surfaces, e.g., masks, photo-masks, reticles; Mask blanks or pellicles therefor	G03F1/00

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

Photomechanical production of textured or patterned surfaces	G03F7/00
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Recording or reproducing by laser	G11B7/00
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### Informative references

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

Electroplating using locally applied laser	C25D5/024
Lasers per se	H01S 3/00, H01S 5/00

### Synonyms and Keywords

*In patent documents, the following expressions “multiphoton lithograph”, “direct laser lithography” and “direct laser writing (DLW)” are often used as synonyms.*

*In patent documents, the expressions “Masers, X-ray lasers, gamma lasers, optical amplifiers” are often used instead of “Laser” which is used in the classification scheme of this group.*

## B23K26/0006

### Informative references

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

Surgical instruments, devices or methods for applying laser energy to the body	A61B18/20
Dental laser	A61C1/0046
Eye surgery using laser	A61F9/008
Laser surface treatment of glass not in the form of fibres or filaments	C03C23/0025

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Laser surface treatment of glass in the form of fibres or filaments	<a href="#">C03C25/6233</a>
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## Special rules of classification within this group

In this group, the involved material should be identified by allocating the appropriate indexing codes as foreseen in [B23K2203/00](#) and subgroups

## B23K26/0066

### Definition statement

This group covers:

Glazing.  
Nanostructuring, e.g. colouring metal  
Melting

### References relevant to classification in this group

*This group does not cover:*

Laser melting or welding of glass	<a href="#">C03C</a>
Surface treatment of glass	<a href="#">C03C</a>
For changing the physical structure of ferrous metals or alloys	<a href="#">C21D</a>
Annealing metallic materials	<a href="#">C21D</a> , <a href="#">C22F</a>
Laser re-melting of metals by wave energy	<a href="#">C22B 9/22</a>
For changing the physical structure of non-ferrous metals or alloys	<a href="#">C22F</a>
Chemical coating, alloying or chemical coating of metallic materials	<a href="#">C23C</a>
Annealing non-metallic materials	<a href="#">C30B</a>
Annealing crystalline material	<a href="#">C30B 33/02</a>
Laser treatment of semiconductors	<a href="#">H01L 21/20</a>

### Glossary of terms

*In this group, the following terms or expressions are used with the meaning indicated:*

Annealing	Process that produces conditions by heating to above the
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	recrystallization temperature, maintaining a suitable temperature, and then cooling.
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## B23K26/02

### Definition statement

*This group covers:*

Method and devices for positioning or observing the workpiece.

Aligning, aiming or focussing the laser beam by exchanging the focussing optics

### Informative references

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

Interchange of lenses in general	<a href="#">G02B 7/14</a>
Automatic generation of focusing signals for optical elements	<a href="#">G02B 7/28</a>
Optical focussing aids	<a href="#">G02B 7/40</a>

## B23K26/0626

### Informative references

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

Temporal shaping of laser beams	<a href="#">H01S 3/0057</a>
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## B23K 26/066

### Informative references



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

Masks for photomechanical production of textured or patterned surfaces	<a href="#">G03F 1/00</a>
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## **B23K26/0821**

### **Informative references**

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

Scanning devices using multifaceted mirrors, in general	<a href="#">G02B 26/12</a>
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## **B23K26/12**

### **Informative references**

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

Features inside the nozzle for feeding the fluid stream through the nozzle	<a href="#">B23K 26/1476</a>
Selection of media, e.g. special atmospheres for surrounding the working area for use in soldering, welding, or cutting	<a href="#">B23K35/38</a>
Reactive-ion etching	<a href="#">H01L21/3065</a>

## **B23K26/126**

### **Informative references**

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

Chemical etching of glass	<a href="#">C03C 15/00, C03C 25/68</a>
Chemical etching of metallic material	<a href="#">C23F 1/00</a>
Etching of crystallised non-metallic material with defined structure in gas atmosphere	<a href="#">C30B 33/12</a>

## **B23K26/14**

### **References relevant to classification in this group**

*This group does not cover:*

Working by laser in a special environment or atmosphere	<a href="#">B23K 26/12</a>
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### **Informative references**

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

Ionisation of the arc gap by radiation	<a href="#">B23K 9/0675</a>
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## **B23K26/16**

### **Definition statement**

*This group covers:*

Configurations for evacuating by-products between pieces.

### **References relevant to classification in this group**

*This group does not cover:*

Removal of by-products by a fluid stream	<a href="#">B23K 26/142</a>
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## B23K26/18

### Definition statement

*This group covers:*

Marking by way of material removal.

Feeding welding wire

Elements for intercepting radiations at the end of boring a hole, even if not applied to the surface.

### Informative references

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

Observing devices provided with laser radiation protection devices	<a href="#">B23K 26/03</a>
using masks on the workpiece for shaping the laser beam	<a href="#">B23K 26/0661</a>
Interposition of material for facilitating bonding	<a href="#">B23K 26/211</a>
Reactive-ion etching	<a href="#">H01L 21/3065</a>
Laser anti-reflection devices, e.g. optical isolators	<a href="#">H01S 3/0064</a>

## B23K26/20

### Definition statement

*This group covers:*

Localised welding with special shaped welded area, e.g. button shaped

### References relevant to classification in this group

*This group does not cover:*

Soldering by means of radiant energy	<a href="#">B23K 1/005</a>
Joining of preformed plastics by heating using laser beam	<a href="#">B29C 65/16</a>
Welding light guides	<a href="#">G02B 6/4237</a>

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

Joining of semiconductor bodies for junction formation by direct bonding	<a href="#">H01L 21/185</a>
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**B23K26/211****Informative references***Attention is drawn to the following places, which may be of interest for search:*

with interposition of solder	<a href="#">B23K 1/0056</a>
with interposition of adhesive being heated by laser	<a href="#">C09J 5/06</a>

**B23K26/32****Special rules of classification within this subclass/group**

In this group, the involved material should be identified by allocating the appropriate indexing codes as foreseen in [B23K2203/00](#) and subgroups

**B23K26/322****References relevant to classification in this group***This group does not cover:*

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Using absorbing layers on the workpiece	<a href="#">B23K 26/18</a>
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### Informative references

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

Coated articles, e.g. plated or painted or surface treated articles made by soldering, welding or cutting	<a href="#">B23K 2201/34</a>
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## B23K26/324

### Informative references

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

Devices or method using laser on the body	<a href="#">A61B 18/20</a>
Dental laser	<a href="#">A61C 1/0046</a>
Eye laser surgery	<a href="#">A61F 9/008</a>
Joining glass to glass by fusing with laser	<a href="#">C03B 23/20</a>
Joining glass to glass by processes other than by fusing using laser	<a href="#">C03C 27/06</a>
Joining ceramics	<a href="#">C04B 37/00</a>
Treatment of micro-organisms with electric or wave energy	<a href="#">C12N 13/00</a>

## B23K26/34

### Definition statement

*This group covers:*

Laser Cladding.

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**References relevant to classification in this group**

*This group does not cover:*

Diffusion treatment of metallic material (e.g. surface alloying); coating of metallic or coating material with metallic material by chemical coating or vacuum evaporation, e.g. sputtering	<a href="#">C23C14/00</a>
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**Informative references**

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

Shaped metal deposition (SMD)	<a href="#">B22F3/1055</a>
Sintering Glass	<a href="#">C03B19/06</a>
Sintering ceramics	<a href="#">C04B7/4461</a>
Manufacturing by laser welding of machines or engines other than non-positive-displacement machines or engines, wind motors, non-positive displacement pumps	<a href="#">F05B2230/234</a>

**Glossary of terms**

Laser net shape manufacturing	Laser net shape manufacturing refers to laser cladding or laser consolidation. In laser cladding as well as laser consolidation, a laser beam creates a molten pool on a substrate into which powder is deposited in a beam/powder interaction zone. Concurrently, the substrate on which the deposition is occurring is moving with respect to the beam/powder interaction zone to fabricate the desired cross-sectional geometry. Consecutive layers may be additively deposited, thereby producing a three-dimensional part. Laser cladding is applied to enhance the surface properties of machine parts locally with powder or wires melted via a laser beam. Laser consolidation involves the manufacturing of parts through depositing multiple layers of material
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**B23K26/36**

**Definition statement**

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Removing material e.g. ablating, without cutting or boring.

## References relevant to classification in this group

*This group does not cover:*

Cleaning by laser treatment	<a href="#">B08B7/0042</a>
for creating voids inside the workpiece, e.g. for forming flow passages of flow patterns	<a href="#">B23K 26/55</a>
with laser beam entering a face of the workpiece from which it is transmitted through the workpiece material to work on a different workpiece face	<a href="#">B23K 26/57</a>
Laser assisted chemical etching	<a href="#">C23F 1/00</a>
Laser wire stripping	<a href="#">H02G 1/128</a>
Severing conductive links on memory integrated circuits	<a href="#">H01L 23/5258</a>

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

Processing photosensitive materials by stripping	<a href="#">G03F 7/42</a>
Ablation for laser recording	<a href="#">G11B 7/00</a>
Laser etching of printed circuit substrate	<a href="#">H05K 3/0026</a>

## Informative references

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

Laser removal of surface material for decorative purpose	<a href="#">B44C 1/228</a>
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## Glossary of terms

*In this group, the following terms or expressions are used with the meaning indicated:*

Engraving	Incising a design on to a hard, usually flat surface, by cutting grooves into it
Etching	Cutting superficially or partially through the workpiece, e.g.

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	engraving
Scribing	Cutting deep grooves by laser light on workpieces to separate them mechanically; e.g. perforating semiconductor wafers or ceramic substrates by laser processing, and subsequently dividing them into separate elements to manufacture integrated circuits

## B23K26/40

### Special rules of classification within this subclass/group

In this group, the involved material should be identified by allocating the appropriate indexing codes as foreseen in [B23K2203/00](#) and subgroups.

## B23K26/402

### Informative references

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

Devices or method using laser on the body	<a href="#">A61B 18/20</a>
Dental laser	<a href="#">A61C 1/0046</a>
Eye laser surgery	<a href="#">A61F 9/008</a>
Working or preserving wood or similar material	<a href="#">B27B - B27M</a>
Severing glass using laser	<a href="#">C03B 33/0222</a> , <a href="#">C03B 33/091</a>
Joining ceramics	<a href="#">C04B 37/00</a>
Clicking, perforating, or cutting leather	<a href="#">C14B 5/00</a>
Treatment of micro-organisms with electric or wave energy	<a href="#">C12N 13/00</a>
Introduction of foreign genetic material into plant cells by physical or non-biological means	<a href="#">C12N 15/8206</a>



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## **B23K26/705**

### **Informative references**

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

Beam monitoring per se	<a href="#">G01J 1/4257</a>
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## **B23K26/706**

### **Informative references**

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

Goggles or eye-masks for welders carried on the body or in the hand	<a href="#">A61F 9/02, A61F 9/06</a>
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## 3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	B23K26/00	B23K 26/00 B23K 26/346 B23K 26/348 B23K 26/50 B23K 26/53 B23K 26/55 B23K 26/57
D	B23K 26/0003	B23K 26/351
D	B23K 26/0009	B23K26/0006 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/0012	B23K26/0006 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/0015	B23K26/0006 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/0018	B23K26/0006 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/0021	B23K26/0006 and B23K2203/00 ADD INFO simultaneously
D	B23K 26/0024	B23K26/0006 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/0027	B23K26/0006 and B23K2203/32 ADD INFO simultaneously
D	B23K 26/003	B23K26/0006 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/0033	B23K26/0006 and B23K2203/40 ADD INFO simultaneously
D	B23K 26/0036	B23K26/0006 and B23K2203/42 ADD INFO simultaneously
D	B23K 26/0039	B23K26/0006 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/0042	B23K26/0006 and B23K2203/56 ADD INFO simultaneously
D	B23K 26/0045	B23K26/0006 and B23K2203/52 ADD INFO simultaneously
D	B23K 26/0048	B23K26/0006 and B23K2203/16 ADD INFO simultaneously
D	B23K 26/0051	B23K26/0006 and B23K2201/34 ADD INFO simultaneously
D	B23K 26/023	B23K 26/037
D	B23K 26/026	B23K 26/035
D	B23K 26/036	B23K 26/0342
Q	B23K 26/037	B23K 26/037 B23K 26/02
D	B23K 26/038	B23K 26/0344
D	B23K 26/041	B23K 26/042
D	B23K 26/045	B23K 26/044

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	B23K26/06	B23K 26/06 B23K 26/062
D	B23K 26/0621	B23K 26/0619
D	B23K 26/063	B23K 26/0622
D	B23K 26/0635	B23K 26/0624
D	B23K 26/0639	B23K 26/064
D	B23K 26/0656	B23K 26/066
D	B23K 26/0807	B23K 26/082
D	B23K 26/0815	B23K 26/0821
D	B23K 26/121	B23K 26/122
	Second action after transfer of 26/122	Document families currently classified in B23K 26/122 should transfer to B23K 26/1224 prior to transferring documents from B23K 26/121 to B23K 26/122
D	B23K 26/122	B23K 26/1224
	First action before deleting 26/121	Document families currently classified in B23K 26/122 should transfer to B23K 26/1224 prior to transferring documents from B23K 26/121 to B23K 26/122
D	B23K 26/1405	B23K 26/142
D	B23K 26/1411	B23K 26/144
D	B23K 26/1417	B23K 26/146
D	B23K 26/1441	B23K 26/1436
D	B23K 26/1447	B23K 26/1437
D	B23K 26/1452	B23K 26/1438
D	B23K 26/1458	B23K 26/1462
C	B23K 26/20	B23K 26/20 B23K 26/21
D	B23K 26/203	B23K 26/211
D	B23K 26/243	B23K 26/242
D	B23K 26/246	B23K 26/244
D	B23K 26/265	B23K 26/262
D	B23K 26/285	B23K 26/282
D	B23K 26/305	B23K 26/302
D	B23K 26/3206	B23K 26/32 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/3213	B23K 26/32 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/322	B23K 26/32 and B23K2203/08 ADD INFO simultaneously
	First action before deleting 26/3293	Document families currently classified in B23K26/322 should transfer to B23K26/32 and B23K2203/08 ADD INFO prior to transferring documents from group B23K26/3293 to B23K26/322
D	B23K 26/3226	B23K 26/3217
D	B23K 26/3233	B23K 26/323

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	B23K 26/3246	B23K26/324 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/3253	B23K26/324 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/326	B23K26/324 and B23K2203/40 ADD INFO simultaneously
D	B23K 26/3266	B23K26/32 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/3273	B23K26/32 and B23K2203/52 ADD INFO simultaneously
D	B23K 26/328	B23K26/32 and B23K2203/16 ADD INFO simultaneously
D	B23K 26/3286	Administrative transfer to B23K26/32 and B23K2201/35 ADD INFO simultaneously
D	B23K 26/3293	Administrative transfer to B23K26/322 and B23K2201/34 ADD INFO simultaneously
	Second action after transfer from 26/322	Document families currently classified in B23K26/322 should transfer to B23K26/32 and B23K2203/08 ADD INFO prior to transferring documents from group B23K26/3293 to B23K26/322
D	B23K 26/3246	Administrative transfer to B23K26/324 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/345	B23K 26/342
C	B23K 26/36	B23K 26/36 B23K 26/55 B23K 26/57
D	B23K 26/362	B23K 26/361
	First action before transfer from 26/365	Document families currently classified in B23K 26/362 should transfer to B23K 26/361 prior to transferring document families from B23K 26/365 to B23K 26/362
D	B23K 26/365	B23K 26/362
	Second action after deletion of 26/362	Document families currently classified in B23K 26/362 should transfer to B23K 26/361 prior to transferring document families from B23K 26/365 to B23K 26/362
D	B23K 26/367	B23K 26/364
D	B23K 26/381	B23K 26/382
D	B23K 26/383	B23K 26/384
D	B23K 26/385	B23K 26/386

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
	Third action after 26/386 is deleted and newly created	Document families currently classified in B23K 26/386 should transfer to B23K 26/388 prior to transferring document families from B23K 26/385 to B23K 26/386
D	B23K 26/386	B23K 26/388
	Second action before deletion of 26/385 and after 26/388 is deleted and newly created	Document families currently classified in B23K 26/386 should transfer to B23K 26/388 prior to transferring document families from B23K 26/385 to B23K 26/386
D	B23K 26/388	B23K 26/389
	First action before deletion of 26/386	Document families currently classified in B23K 26/388 should transfer to B23K 26/389 prior to transferring document families from B23K 26/386 to B23K 26/388
D	B23K 26/4005	B23K26/40 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/401	B23K26/40 and B23K2203/08 ADD INFO simultaneously
D	B23K 26/4015	B23K26/40 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/402	B23K26/40 and B23K2203/50 ADD INFO simultaneously
	First action before deletion of 26/4025	Document families currently classified in B23K 26/402 should transfer to B23K 26/40 and B23K 2203/50 prior to transferring document families from B23K 26/4025 to B23K 26/402
D	B23K 26/4025	B23K 26/402
	Second action after transfer from 26/402	Document families currently classified in B23K 26/402 should transfer to B23K 26/40 and B23K 2203/50 prior to transferring document families from B23K 26/4025 to B23K 26/402
D	B23K 26/403	B23K26/402 and B23K2203/30 ADD INFO simultaneously
D	B23K 26/4035	B23K26/402 and B23K2203/32 ADD INFO simultaneously
D	B23K 26/404	B23K26/402 and B23K2203/34 ADD INFO simultaneously
D	B23K 26/4045	B23K26/402 and B23K2203/36 ADD INFO simultaneously
D	B23K 26/405	B23K26/402 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/4055	B23K26/402 and B23K2203/38 ADD INFO simultaneously
D	B23K 26/406	B23K26/402 and B23K2203/40 ADD INFO simultaneously

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D	B23K 26/4065	B23K26/402 and B23K2203/42 ADD INFO simultaneously
D	B23K 26/407	B23K26/40 and B23K2203/50 ADD INFO
D	B23K 26/4075	B23K26/40 and B23K2203/50 ADD INFO simultaneously
D	B23K 26/408	B23K26/40 and B23K2203/52 ADD INFO simultaneously
D	B23K 26/4085	B23K26/40 and B23K2203/16 ADD INFO simultaneously
D	B23K 26/409	B23K26/40 and B23K2203/172 ADD INFO simultaneously
D	B23K 26/4095	B23K26/40 and B23K2201/35 ADD INFO simultaneously
D	B23K 26/42	B23K 26/70
D	B23K 26/421	B23K 26/60
D	B23K 26/422	B23K 26/702
D	B23K 26/423	B23K 26/703
D	B23K 26/425	B23K 26/704
D	B23K 26/426	B23K 26/705
D	B23K 26/427	B23K 26/706
D	B23K 26/428	B23K 26/707
C	B23K 2201/34	B23K 2201/34 B23K 2201/35
C	B23K 2203/00	B23K 2203/00 B23K 2203/30 B23K 2203/32 B23K 2203/34 B23K 2203/36 B23K 2203/38 B23K 2203/40 B23K 2203/42 B23K 2203/50 B23K 2203/52 B23K 2203/54 B23K 2203/56
C	B23K 2203/04	B23K 2203/04 B23K 2203/05
C	B23K 2203/08	B23K 2203/08 B23K 2203/15
C	B23K 2203/16	B23K 2203/16 B23K 2203/166 B23K 2203/172
C	B23K 2203/18	B23K 2203/18 B23K 2203/26

\* 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.

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NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action</u>
B23K 26/0003	B23K 26/00	DELETE
B23K 26/0009	B23K 26/00	DELETE
B23K 26/0012	B23K 26/00	DELETE
B23K 26/0015	B23K 26/00	DELETE
B23K 26/0018	B23K 26/00	DELETE
B23K 26/0021	B23K 26/00	DELETE
B23K 26/0024	B23K 26/00	DELETE
B23K 26/0027	B23K 26/00	DELETE
B23K 26/003	B23K 26/00	DELETE
B23K 26/0033	B23K 26/00	DELETE
B23K 26/0036	B23K 26/00	DELETE
B23K 26/0039	B23K 26/00	DELETE
B23K 26/0042	B23K 26/00	DELETE
B23K 26/0045	B23K 26/00	DELETE
B23K 26/0048	B23K 26/00	DELETE
B23K 26/0051	B23K 26/00	DELETE
B23K 26/023	B23K 26/02	DELETE
B23K 26/026	B23K 26/02	DELETE
B23K 26/0342	B23K 26/03	NEW
B23K 26/0344	B23K 26/03	NEW
B23K 26/035	B23K 26/035	NEW
B23K 26/036	B23K 26/03	DELETE
B23K 26/037	B23K 26/035	NEW
B23K 26/038	B23K 26/03	DELETE
B23K 26/041	B23K 26/04	DELETE
B23K 26/042	B23K 26/042	NEW
B23K 26/044	B23K 26/044	NEW
B23K 26/045	B23K 26/04	DELETE
B23K 26/046	B23K 26/046	UPDATED
B23K 26/0619	B23K 26/06	NEW
B23K 26/062	B23K 26/062	NEW
B23K 26/0621	B23K 26/06	DELETE
B23K 26/0622	B23K 26/0622	NEW
B23K 26/0624	B23K 26/0622	NEW
B23K 26/063	B23K 26/06	DELETE
B23K 26/0635	B23K 26/06	DELETE
B23K 26/0639	B23K 26/06	DELETE
B23K 26/064	B23K 26/064	NEW
B23K 26/0656	B23K 26/06	DELETE
B23K 26/066	B23K 26/066	NEW
B23K 26/0807	B23K 26/08	DELETE
B23K 26/0815	B23K 26/08	DELETE
B23K 26/082	B23K 26/082	NEW
B23K 26/0821	B23K 26/082	NEW
B23K 26/121	B23K 26/12	DELETE
B23K 26/122	B23K 26/122	UPDATED



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B23K 26/1224	B23K 26/12	NEW
B23K 26/1405	B23K 26/14	DELETE
B23K 26/1411	B23K 26/14	DELETE
B23K 26/1417	B23K 26/14	DELETE
B23K 26/142	B23K 26/142	NEW
B23K 26/1436	B23K 26/14	NEW
B23K 26/1437	B23K 26/14	NEW
B23K 26/1438	B23K 26/14	NEW
B23K 26/144	B23K 26/144	NEW
B23K 26/1441	B23K 26/14	DELETE
B23K 26/1447	B23K 26/14	DELETE
B23K 26/1452	B23K 26/14	DELETE
B23K 26/1458	B23K 26/14	DELETE
B23K 26/146	B23K 26/146	NEW
B23K 26/1462	B23K 26/14	NEW
B23K 26/203	B23K 26/20	DELETE
B23K 26/21	B23K 26/21	NEW
B23K 26/211	B23K 26/211	NEW
B23K 26/242	B23K 26/242	NEW
B23K 26/243	B23K 26/24	DELETE
B23K 26/244	B23K 26/244	NEW
B23K 26/246	B23K 26/24	DELETE
B23K 26/262	B23K 26/262	NEW
B23K 26/265	B23K 26/26	DELETE
B23K 26/282	B23K 26/282	NEW
B23K 26/285	B23K 26/28	DELETE
B23K 26/302	B23K 26/302	NEW
B23K 26/305	B23K 26/30	DELETE
B23K 26/3206	B23K 26/32	DELETE
B23K 26/3213	B23K 26/32	DELETE
B23K 26/322	B23K 26/322	UPDATED
B23K 26/3226	B23K 26/32	DELETE
B23K 26/323	B23K 26/323	NEW
B23K 26/3233	B23K 26/32	DELETE
B23K 26/324	B23K 26/324	UPDATED
B23K 26/3246	B23K 26/32	DELETE
B23K 26/3253	B23K 26/32	DELETE
B23K 26/326	B23K 26/32	DELETE
B23K 26/3266	B23K 26/32	DELETE
B23K 26/3273	B23K 26/32	DELETE
B23K 26/328	B23K 26/32	DELETE
B23K 26/3286	B23K 26/32	DELETE
B23K 26/3293	B23K 26/32	DELETE
B23K 26/342	B23K 26/342	NEW
B23K 26/345	B23K 26/34	DELETE
B23K 26/346	B23K26/ 346	NEW
B23K 26/348	B23K26/ 348	NEW
B23K 26/351	B23K26/ 351	NEW
B23K 26/352	B23K26/ 352	NEW
B23K 26/354	B23K26/ 354	NEW
B23K 26/356	B23K26/ 356	NEW
B23K 26/359	B23K26/ 359	NEW

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B23K 26/361	B23K 26/361	NEW
B23K 26/362	B23K 26/362	UPDATED
B23K 26/364	B23K 26/364	NEW
B23K 26/365	B23K 26/36	DELETE
B23K 26/367	B23K 26/36	DELETE
B23K 26/381	B23K 26/38	DELETE
B23K 26/382	B23K 26/382	NEW
B23K 26/383	B23K 26/38	DELETE
B23K 26/384	B23K 26/384	NEW
B23K 26/385	B23K 26/38	DELETE
B23K 26/386	B23K 26/386	UPDATED
B23K 26/388	B23K 26/388	UPDATED
B23K 26/389	B23K 26/382	NEW
B23K 26/4005	B23K 26/40	DELETE
B23K 26/401	B23K 26/40	DELETE
B23K 26/4015	B23K 26/40	DELETE
B23K 26/402	B23K 26/402	UPDATED
B23K 26/4025	B23K 26/40	DELETE
B23K 26/403	B23K 26/40	DELETE
B23K 26/4035	B23K 26/40	DELETE
B23K 26/404	B23K 26/40	DELETE
B23K 26/4045	B23K 26/40	DELETE
B23K 26/405	B23K 26/40	DELETE
B23K 26/4055	B23K 26/40	DELETE
B23K 26/406	B23K 26/40	DELETE
B23K 26/4065	B23K 26/40	DELETE
B23K 26/407	B23K 26/40	DELETE
B23K 26/4075	B23K 26/40	DELETE
B23K 26/408	B23K 26/40	DELETE
B23K 26/4085	B23K 26/40	DELETE
B23K 26/409	B23K 26/40	DELETE
B23K 26/4095	B23K 26/40	DELETE
B23K 26/42	B23K 26/42	DELETE
B23K 26/421	B23K 26/42	DELETE
B23K 26/422	B23K 26/42	DELETE
B23K 26/423	B23K 26/42	DELETE
B23K 26/425	B23K 26/42	DELETE
B23K 26/426	B23K 26/42	DELETE
B23K 26/427	B23K 26/42	DELETE
B23K 26/428	B23K 26/42	DELETE
B23K 26/50	B23K 26/50	NEW
B23K 26/53	B23K 26/53	NEW
B23K 26/55	B23K 26/55	NEW
B23K 26/57	B23K 26/57	NEW
B23K 26/60	B23K 26/60	NEW
B23K 26/70	B23K 26/70	NEW
B23K 26/702	B23K 26/70	NEW
B23K 26/703	B23K 26/70	NEW
B23K 26/704	B23K 26/70	NEW
B23K 26/705	B23K 26/70	NEW
B23K 26/706	B23K 26/70	NEW
B23K 26/707	B23K 26/70	NEW

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B23K2201/00	B23K101/00	NEW
B23K2201/001	B23K101/00	NEW
B23K2201/002	B23K101/00	NEW
B23K2201/003	B23K101/00	NEW
B23K2201/005	B23K101/00	NEW
B23K2201/006	B23K101/00	NEW
B23K2201/007	B23K101/00	NEW
B23K2201/008	B23K101/00	NEW
B23K2201/02	B23K101/02	NEW
B23K2201/04	B23K101/04	NEW
B23K2201/045	B23K101/04	NEW
B23K2201/06	B23K201/06	NEW
B23K2201/08	B23K201/08	NEW
B23K2201/10	B23K201/10	NEW
B23K2201/12	B23K201/12	NEW
B23K2201/125	B23K201/12	NEW
B23K2201/14	B23K201/14	NEW
B23K2201/16	B23K201/16	NEW
B23K2201/18	B23K201/18	NEW
B23K2201/185	B23K201/18	NEW
B23K2201/20	B23K201/20	NEW
B23K2201/22	B23K201/22	NEW
B23K2201/24	B23K201/24	NEW
B23K2201/26	B23K201/26	NEW
B23K2201/28	B23K201/28	NEW
B23K2201/30	B23K201/30	NEW
B23K2201/32	B23K201/32	NEW
B23K2201/34	B23K201/34	NEW
B23K2201/35	B23K201/34	NEW
B23K2201/36	B23K201/36	NEW
B23K2201/38	B23K201/38	NEW
B23K2201/40	B23K201/40	NEW
B23K2201/42	B23K201/42	NEW
B23K2203/00	B23K203/00	NEW
B23K2203/02	B23K203/02	NEW
B23K2203/04	B23K203/04	NEW
B23K2203/05	B23K203/04	NEW
B23K2203/06	B23K203/06	NEW
B23K2203/08	B23K203/08	NEW
B23K2203/10	B23K203/10	NEW
B23K2203/12	B23K203/12	NEW
B23K2203/14	B23K203/14	NEW
B23K2203/15	B23K203/08	NEW
B23K2203/16	B23K203/16	NEW
B23K2203/166	B23K203/16	NEW
B23K2203/172	B23K203/16	NEW
B23K2203/18	B23K203/18	NEW
B23K2203/20	B23K203/20	NEW
B23K2203/22	B23K203/22	NEW
B23K2203/24	B23K203/24	NEW
B23K2203/26	B23K203/18	NEW
B23K2203/30	B23K203/00	NEW

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B23K2203/32	B23K203/00	NEW
B23K2203/34	B23K203/00	NEW
B23K2203/36	B23K203/00	NEW
B23K2203/38	B23K203/00	NEW
B23K2203/40	B23K203/00	NEW
B23K2203/42	B23K203/00	NEW
B23K2203/50	B23K203/00	NEW
B23K2203/52	B23K203/00	NEW
B23K2203/54	B23K203/00	NEW
B23K2203/56	B23K203/00	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.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

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5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
B23K37/00	...{ laser protective screens B23K26/427 ; } protective shields for ...	...{ laser protective screens B23K26/706 ; } protective shields for ...
D06H7/22	... ({by laser beam B23K26/4055})	... ({by laser beam B23K26/402})
H01C17/242	B23K26/0003	trimming by laser in general B23K26/351

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B23K26/00	B23K26/4025	References relevant to classification in this group	B23K 26/402; Laser lift-off by applying laser at an interface through the front layer
B23K26/08	B23K26/422	Special rules of classification within this group	B23K26/702; Features of workpiece holding or support member B23K26/702 B23K26/08 or subgroup.
B28D	B23K26/4075	Informative references	B23K26/40, B23K2203/50; Working brittle material by laser beam
B28D5/00	B23K26/4075	Informative references	B23K26/40, B23K2203/50; Working brittle material by laser beam
B29C59/007	B23K26/4065	References relevant to classification in this group	B23K26/402; Working by laser beam, removal material, plastics
B29C59/16	B23K26/4065	References relevant to classification in this group	B23K26/402; Working by laser beam, removal material, plastics
B29C66/1122	B23K26/246	Informative references	B23K26/244; Overlap laser welding of metal parts
B60J1/00	B23K26/4025	Informative references	B23K26/402; By cutting seal with laser
C04B2237/52	B23K26/0045	References relevant to classification in this group	B23K26/006; cutting of ceramic
CO9J5/00	B23K26/203	References relevant to classification in	B23K26/211; Welding with interposition of

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
		this group	material for facilitating bonding
C14B1/56	B23K26/404	Informative references	B23K26/402, B23K2203/34; Working leather by laser beam
C14B5/00	B23K26/404	Informative references	B23K26/402, B23K2203/34; Working leather by laser beam
D06H7/22	B23K26/4055	References relevant to classification in this group	B23K26/402, B23K2203/38; Working by laser beam e.g. welding, cutting, boring of fabrics
F16P1/06	B23K26/427	Informative references	B23K26/706; Protective screens for laser working
H01C	B23K26/0003	Informative references	B23K26/351; Trimming of electrical components
H01C17/242	B23K26/0003	Informative references	B23K26/351; Trimming of electrical components
H01L23/00	B23K26/0042	Informative references	B23K26/0006, B23K2201/40, B23K2203/56; Laser working of semiconductors

## NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.