

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 77

DATE: MAY 1, 2015

PROJECT MP0118

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

<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
Title wording change:	B21D	
	B21F	
	B21G	
	B21J	
	B21K	
	B21L	
	B27B	
	B27C	
	B27F	
	B27H	
	B31 (class)	
	B31B	
	B31C	1/00
	B31C	3/00
	B31C	5/00
	B31C	7/00
	B31C	11/00
	B31D	
	B31F	7/00
	B31F	7/02
B60B		
B60K		
B61F		
B64D		
B64F		
Scheme Notes to be added/modified/deleted:	B21 (class)	
	B23 (class)	
	B23P	
	B31D	

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)

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- 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)

SECTION B - PERFORMING OPERATIONS; TRANSPORTING

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	B21D	SUBCLASS	WORKING OR PROCESSING OF SHEET METAL OR METAL TUBES, RODS OR PROFILES WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL (working or processing of wire B21F)	
M	B21F	SUBCLASS	WORKING OR PROCESSING OF METAL WIRE ({reducing diameter by} rolling of metal B21B; by drawing, auxiliary operations used in connection with metal-working without essentially removing material B21C; bundling articles B65B13/00)	
M	B21G	SUBCLASS	MAKING NEEDLES, PINS OR NAILS OF METAL	
M	B21J	SUBCLASS	FORGING; HAMMERING; PRESSING METAL; RIVETING; FORGE FURNACES (rolling of metal B21B; making particular products by forging or pressing B21K; cladding or plating B23K; finishing surfaces by hammering B23P9/04; compacting surfaces by blasting with particulate material B24C1/10; general features of presses, presses for consolidating scrap B30B; furnaces in general F27)	
M	B21K	SUBCLASS	MAKING FORGED OR PRESSED METAL PRODUCTS, e.g. HORSE-SHOES, RIVETS, BOLTS OR WHEELS (making particular articles by working sheet metal without essentially removing material B21D; processing wire B21F; making pins, needles or nails B21G; making particular articles by rolling B21H; forging machines, pressing machines, hammering machines, in general B21J; making chains B21L;	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to[#]</u>
			plating B23K)	
M	B21L	SUBCLASS	MAKING METAL CHAINS (making chains or chain links by casting B22D25/02; chains in general F16G)	
M	B27B	SUBCLASS	SAWS FOR WOOD OR SIMILAR MATERIAL; COMPONENTS OR ACCESSORIES THEREFOR (saws specially adapted for pruning or debranching A01G3/08; sawing apparatus specially adapted for felling trees A01G23/091; features not restricted to a particular type of wood saw B23D, e.g. attaching saw blades B23D51/00; machine tool frames, beds, pillars or like members, in general B23Q1/01)	
M	B27C	SUBCLASS	PLANING, DRILLING, MILLING, TURNING OR UNIVERSAL MACHINES FOR WOOD OR SIMILAR MATERIAL (machine tools in general B23; working wood using abrasive, e.g. sanding, devices B24; tools for these purposes B27G)	
M	B27F	SUBCLASS	DOVETAILED WORK; TENONS; SLOTTING MACHINES FOR WOOD OR SIMILAR MATERIAL; NAILING OR STAPLING MACHINES (hand-held nailing or stapling tools B25C; manufacture of cases, trunks or boxes from wood B27M3/34; connections for building structures in general, e.g. dowels for use in building constructions E04B1/38; jointing elements in general, e.g. dowels in general, F16B {; manufacture of long strips or planks by bonding together pieces of wood, e.g. by glueing, B27M3/0013})	
M	B27H	SUBCLASS	BENDING WOOD OR SIMILAR MATERIAL; COOPERAGE; MAKING WHEELS FROM WOOD OR SIMILAR MATERIAL	
M	B31	CLASS	MAKING ARTICLES OF PAPER OR CARDBOARD; WORKING PAPER OR CARDBOARD	

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M	B31B	SUBCLASS	MAKING BOXES, CARTONS, ENVELOPES OR BAGS OF PAPER OR CARDBOARD (incising, scoring, in general B26D3/08; combined making and filling B65B)	
M	B31C	SUBCLASS	MAKING WOUND ARTICLES, e.g. WOUND TUBES, OF PAPER OR CARDBOARD (characteristics relating to the working of plastics B29; shaping of plastics or substances in a plastic state B29C)	
M	B31C1/00	0	Forming tubes or pipes of paper or cardboard by feeding at right angles to the winding mandrel centre line	
M	B31C3/00	0	Forming tubes or pipes of paper or cardboard by feeding obliquely to the winding mandrel centre line	
M	B31C5/00	0	Forming tubes or pipes of paper or cardboard without mandrels	
M	B31C7/00	0	Forming conical articles of paper or cardboard by winding (winding blanks B31B)	
M	B31C11/00	0	Machinery for winding paper or cardboard combined with other machinery	
M	B31D	SUBCLASS	MAKING ARTICLES OF PAPER OR CARDBOARD NOT PROVIDED FOR IN SUBCLASSES B31B OR B31C (manufacture by dry processes of articles made from particles or fibres consisting of wood or other lignocellulosic or like organic material B27N; making layered products not composed wholly of paper or cardboard B32B; making cardboard or paper D21F, D21H; making articles from cellulosic fibrous suspensions, e.g. wood pulp D21J)	
M	B31F7/00	0	Processes for working paper or cardboard not otherwise provided for	

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M	B31F7/02	1	Breaking the coating on paper or cardboard	
M	B60B	SUBCLASS	VEHICLE WHEELS (making wheels or wheel parts by rolling B21H1/00, by forging, hammering or pressing B21K1/28); CASTORS; AXLES FOR WHEELS OR CASTORS; INCREASING WHEEL ADHESION	
M	B60K	SUBCLASS	ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS, IN VEHICLES	
M	B61F	SUBCLASS	RAIL VEHICLE SUSPENSIONS, e.g. UNDERFRAMES, BOGIES OR ARRANGEMENTS OF WHEEL AXLES; RAIL VEHICLES FOR USE ON TRACKS OF DIFFERENT WIDTH; PREVENTING DERAILING OF RAIL VEHICLES; WHEEL GUARDS, OBSTRUCTION REMOVERS OR THE LIKE FOR RAIL VEHICLES (for vehicles in general B60; axles or wheels B60B; vehicle tyres B60C)	
M	B64D	SUBCLASS	EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLYING SUITS; PARACHUTES; ARRANGEMENTS OR MOUNTING OF POWER PLANTS OR PROPULSION TRANSMISSIONS IN AIRCRAFT	
M	B64F	SUBCLASS	GROUND OR AIRCRAFT-CARRIER-DECK INSTALLATIONS SPECIALLY ADAPTED FOR USE IN CONNECTION WITH AIRCRAFT; DESIGNING, MANUFACTURING, ASSEMBLING, CLEANING, MAINTAINING OR REPAIRING AIRCRAFT, NOT	

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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[#]
			OTHERWISE PROVIDED FOR	

*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.
- #“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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C. New, Modified or Deleted Note(s)

SECTION B - PERFORMING OPERATIONS; TRANSPORTING

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	B21		<p>1. This class covers:</p> <ul style="list-style-type: none"> • working of metallic materials; • working of non-metallic materials, provided that the methods applied are similar to those used in metal-working and not provided for elsewhere.
		<p>This class does not cover:- combinations of operations covered by different subclasses of class B21, which are covered by subclass B23P;- combinations of operations covered by any particular subclass of class B21 with operations covered by other classes, e.g. with operations involving removal of material, which are also covered by subclass B23P, except that if the operations covered by the other classes are subsidiary to the operations properly covered by a single subclass of B21 the combination is classified in that subclass.</p>	<p>2. This class does not cover :</p> <ul style="list-style-type: none"> • combinations of operations covered by different subclasses of class B21, which are covered by subclass B23P; • combinations of operations covered by any particular subclass of class B21 with operations covered by other classes, e.g. with operations involving removal of material, which are also covered by subclass B23P, except that if the operations covered by the other classes are subsidiary to the operations properly covered by a single subclass of B21 the combination is classified in that subclass.
		<p>Processes of a kind covered by this class but applied to non-metallic materials are classified in this class if they are applicable to metal and cannot be classified fully in another class.</p>	
M	B23	<p>This class covers:- operations not provided for in any other class;- combinations of operations covered by different subclasses of classes B21 to B24, which combinations are covered by subclass B23P , with the</p>	<p>1. This class covers :</p> <ul style="list-style-type: none"> • working of metallic materials; • working of non-metallic materials, provided that the methods applied are

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		<p>exception of subsidiary operations performed in conjunction with main operations covered by a single subclass;- features, specific to machine tools, which relate to a requirement or problem of a nature which is not peculiar to a particular kind of machine tool, e.g. feeding work, which are covered by subclass B23Q , although the realisation of these features may differ according to the kind of machine tool concerned. The said subclass covers such features, in general, even if the feature or a specific function, in any particular case, is to some extent peculiar to, or is claimed only for, machine tools designed for one particular operation; only in exceptional cases are such features classified in the subclass for the machine tool concerned. Certain features of this general nature are, however, referred to subclasses relating to particular metal-working operations, especially B23B , in which case the subclass in question are not restricted, in respect of those features, to the kind of machine tool with which they are primarily concerned.</p>	<p>similar to those used in metal-working and not provided for elsewhere;</p> <ul style="list-style-type: none"> • features, specific to machine tools, which relate to a requirement or problem of a nature which is not peculiar to a particular kind of machine tool, e.g. feeding work, which are covered by subclass B23Q, although the realisation of these features may differ according to the kind of machine tool concerned. The said subclass covers such features, in general, even if the feature or a specific function, in any particular case, is to some extent peculiar to, or is claimed only for, machine tools designed for one particular operation; only in exceptional cases are such features classified in the subclass for the machine tool concerned. Certain features of this general nature are, however, referred to subclasses relating to particular metal-working operations, especially B23B, in which case the subclasses in question are not restricted, in respect of those features, to the kind of machine tool with which they are primarily concerned.
		<p>In this class, the following terms or expressions are used with the meanings indicated:- “metal-working” covers the working of other materials unless the context requires otherwise;- “kind of operations” and similar expressions relate to such metal-working operations as boring,</p>	<p>2. In this class, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> • “kind of operations” and similar expressions relate to such metal-working operations as boring, drilling, milling and grinding;

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		drilling, milling and grinding;- "kind of machine" means a machine designed for a particular kind of metal-working operation (e.g. a lathe);- "form of machine" means a machine of a particular kind adapted or arranged for a particular way of working or for particular work, e.g. face-plate lathe, tailstock lathe, turret lathe;- "different machines" covers different forms of machines for performing the same type of metal-working operation, e.g. vertical and horizontal boring machines.	<ul style="list-style-type: none"> • "kind of machine" means a machine designed for a particular kind of metal-working operation (e.g. a lathe); • "form of machine" means a machine of a particular kind adapted or arranged for a particular way of working or for particular work, e.g. face-plate lathe, tailstock lathe, turret lathe; • "different machines" covers different forms of machines for performing the same type of metal-working operation, e.g. vertical and horizontal boring machines.
		If details, components, or accessories have no essential feature specific to machine tools, the more general class, e.g. F16, takes precedence.	3. If details, components, or accessories have no essential feature specific to machine tools, the more general class, e.g. F16, takes precedence.
M	B23P		1. This subclass covers: <ul style="list-style-type: none"> • combinations of work-modifying operations covered by different subclasses of classes B21 - B24; • combinations of metal-working operations with non-mechanical treatments of metal not provided for elsewhere, for example in C21D, C22C, C22F or C23.
		This subclass does not cover non-mechanical operations on non-metallic materials unless such operations are specially mentioned in this subclass. In this subclass, the following expressions are used with the meanings indicated: "combined operations" excludes the assembling of parts if it is an essential feature of the next metal-working operation, since it is not regarded as an operation	2. This subclass does not cover <ul style="list-style-type: none"> • non-mechanical operations on non-metallic materials unless such operations are explicitly mentioned in this subclass; • subsidiary operations performed in conjunction with main operations covered by a single subclass, e.g. assembling of parts as an essential

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		per se. “working of metal” and equivalent expressions include non-mechanical treatment of metal so far as it is not provided for in any other class or subclass, for example in C21D, C22C, C22F, C23. Thus, combinations of such non-mechanical treatment with other metal-working are classified in this subclass.	feature of a following metal-working operation, since they are not regarded as operations per se.
		Attention is drawn to the Notes following the title of class B23.	3. Attention is drawn to the Notes following the title of class B23.
D	B31D	This subclass covers the making, otherwise than by winding, of articles other than boxes, cartons, envelopes, bags, and tubes from paper, other than from paper pulp.	

*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.