

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1384

DATE: JANUARY 1, 2023

PROJECT RP11754

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols Deleted:	C22C	1/002, 1/005, 1/0491
	C22C	2001/081, 2001/082, 2001/083, 2001/085, 2001/086, 2001/087, 2001/088, 2001/1021, 2001/1047, 2001/1052, 2001/1057, 2001/1063, 2001/1073, 2001/1089
Symbols Deleted Pending Reclassification: (frozen (F))	C22C	1/058
Symbols New:	C22C	1/047, 1/057, 1/059, 1/081, 1/082, 1/083, 1/085, 1/086, 1/087, 1/088, 1/1021, 1/1047, 1/1052, 1/1057, 1/1063, 1/1073, 1/1089, 1/11, 1/12
	C22C	33/0261
Titles Changed:	C22C	1/00, 1/04, 1/0458, 1/05, 1/051, 1/053, 1/055, 1/056, 1/08, 1/10, 1/1031, 1/1036, 1/1042, 1/1068
	C22C	32/00, 32/0005, 32/0026
	C22C	45/00
Warnings New:	C22C	1/04, 1/0408, 1/0416, 1/0425, 1/0433, 1/0441, 1/045, 1/0458, 1/0466, 1/047, 1/0475, 1/0483, 1/05, 1/051, 1/053, 1/055, 1/056, 1/057, 1/058, 1/059, 1/10, 1/101, 1/1015, 1/1021, 1/1026, 1/1031, 1/1036, 1/1042, 1/1047, 1/1052, 1/1057, 1/1063, 1/1068, 1/1073, 1/1078, 1/1084, 1/1089, 1/1094
	C22C	32/00, 32/0005, 32/001, 32/0026, 32/0031, 32/0036, 32/0042, 32/0047, 32/0084, 32/0089, 32/0094
	C22C	33/0261
Warnings Modified:	C22C	1/1005
Guidance Headings Modified:	C22C	1/00
	C22C	33/00
	C22C	2202/00
<b>DEFINITIONS:</b>		
Definitions Modified:	C22C	1/00, 1/04, 1/05, 1/08, 1/10
	C22C	32/00
	C22C	45/00

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Definition New:	C22C	1/051, 1/053, 1/055, 1/056, 1/057, 1/059

**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): B22F3/23, C04B35/65**

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

1. CLASSIFICATION SCHEME CHANGES

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

2. DEFINITIONS

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

3.  REVISION CONCORDANCE LIST (RCL)

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

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

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## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS C22C - ALLOYS (flints C06C 15/00; treatment of alloys C21D, C22F)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	C22C1/00	0	Making non-ferrous alloys (by electrothermic methods C22B4/00; by electrolysis C25C1/24, C25C3/36)	
D	C22C1/002	1	{Making amorphous alloys (processes for making amorphous material by powder metallurgy B22F)}	<administrative transfer to C22C1/11>
D	C22C1/005	1	{Making alloys with holding in the range of the solid-liquid phase}	<administrative transfer to C22C1/12>
C	C22C1/04	1	by powder metallurgy (C22C1/08 takes precedence)	C22C1/04, C22C1/059
C	C22C1/0408	2	{Light metal alloys}	C22C1/0408, C22C1/059
C	C22C1/0416	3	{Aluminium-based alloys}	C22C1/0416, C22C1/059
C	C22C1/0425	2	{Copper-based alloys}	C22C1/0425, C22C1/059
C	C22C1/0433	2	{Nickel- or cobalt-based alloys}	C22C1/0433, C22C1/059
C	C22C1/0441	3	{Alloys based on intermetallic compounds of the type rare earth - Co, Ni}	C22C1/0441, C22C1/059
C	C22C1/045	2	{Alloys based on refractory metals}	C22C1/045, C22C1/059
C	C22C1/0458	3	{Alloys based on titanium, zirconium or hafnium}	C22C1/0458, C22C1/059
C	C22C1/0466	2	{Alloys based on noble metals}	C22C1/0466, C22C1/059
Q	C22C1/047	2	comprising intermetallic compounds {(C22C1/0441 takes precedence)}	C22C1/047, C22C1/059
C	C22C1/0475	2	{Impregnated alloys}	C22C1/0475, C22C1/059
C	C22C1/0483	2	{Alloys based on the low melting point metals Zn, Pb, Sn, Cd, In or Ga}	C22C1/0483, C22C1/059
D	C22C1/0491	2	{comprising intermetallic compounds (C22C1/0441 takes precedence)}	<administrative transfer to C22C1/047>
C	C22C1/05	2	Mixtures of metal powder with non-metallic powder (C22C1/08 takes precedence)	C22C1/05, C22C1/059
C	C22C1/051	3	Making hard metals based on borides, carbides, nitrides, oxides or silicides; Preparation of the powder mixture used as the starting material therefor	C22C1/051, C22C1/057, C22C1/059
C	C22C1/053	4	with <u>in situ</u> formation of hard compounds	C22C1/053, C22C1/059
C	C22C1/055	5	using carbon	C22C1/055, C22C1/059
C	C22C1/056	5	using gas	C22C1/056, C22C1/059

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N	C22C1/057	4	with <u>in situ</u> formation of phases other than hard compounds by solid state reaction sintering, e.g. metal phase formed by reduction reaction	
F	C22C1/058	3	{by reaction sintering (i.e. gasless reaction starting from a mixture of solid metal compounds)}	C22C1/051, C22C1/053, C22C1/055, C22C1/056, C22C1/057, C22C1/059
N	C22C1/059	3	Making alloys comprising less than 5% by weight of dispersed reinforcing phases	
M	C22C1/08	1	Alloys with open or closed pores	
D	C22C2001/081	2	{Casting porous metals into porous preform skelet without foaming}	<administrative transfer to C22C1/081 INV>
N	C22C1/081	2	{Casting porous metals into porous preform skeleton without foaming}	
D	C22C2001/082	3	{with removal of the preform}	<administrative transfer to C22C1/082 INV>
N	C22C1/082	3	{with removal of the preform}	
D	C22C2001/083	2	{Foaming process in molten metal other than by powder metallurgy}	<administrative transfer to C22C1/083 INV>
N	C22C1/083	2	{Foaming process in molten metal other than by powder metallurgy}	
D	C22C2001/085	3	{with external pressure or pressure buildup to make porous metals}	<administrative transfer to C22C1/085 INV>
N	C22C1/085	3	{with external pressure or pressure buildup to make porous metals}	
D	C22C2001/086	3	{Gas foaming process}	<administrative transfer to C22C1/086 INV>
N	C22C1/086	3	{Gas foaming process}	
D	C22C2001/087	3	{after casting in solidified or solidifying metal to make porous metals}	<administrative transfer to C22C1/087 INV>
N	C22C1/087	3	{after casting in solidified or solidifying metal to make porous metals}	
D	C22C2001/088	2	{Foaming process with solid metal other than by powder metallurgy}	<administrative transfer to C22C1/088 INV>
N	C22C1/088	2	{Foaming process with solid metal other than by powder metallurgy}	
C	C22C1/10	1	Alloys containing non-metals (C22C1/05, C22C1/08 take precedence)	C22C1/10, C22C1/059
C	C22C1/1005	2	{Pretreatment of the non-metallic additives (pretreatment of non-metallic fibres C22C47/02)}	C22C1/1005, C22C1/059
C	C22C1/101	3	{by coating}	C22C1/101, C22C1/059
C	C22C1/1015	3	{by preparing or treating a non-metallic additive preform}	C22C1/1015, C22C1/059
D	C22C2001/1021	4	{the preform being ceramic}	<administrative transfer to C22C1/1021 INV>
Q	C22C1/1021	4	{the preform being ceramic}	C22C1/1021, C22C1/059

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C	C22C1/1026	2	{starting from a solution or a suspension of (a) compound(s) of at least one of the alloy constituents}	C22C1/1026, C22C1/059
C	C22C1/1031	2	{starting from gaseous compounds or vapours of at least one of the constituents}	C22C1/1031, C22C1/059
C	C22C1/1036	2	{starting from a melt}	C22C1/1036, C22C1/059
C	C22C1/1042	3	{by atomising}	C22C1/1042, C22C1/059
D	C22C2001/1047	3	{by mixing and casting liquid metal matrix composites}	<administrative transfer to C22C1/1047 INV>
Q	C22C1/1047	3	{by mixing and casting liquid metal matrix composites}	C22C1/1047, C22C1/059
D	C22C2001/1052	4	{by mixing and casting metal matrix composites with reaction}	<administrative transfer to C22C1/1052 INV>
Q	C22C1/1052	4	{by mixing and casting metal matrix composites with reaction}	C22C1/1052, C22C1/059
D	C22C2001/1057	3	{Reactive infiltration}	<administrative transfer to C22C1/1057 INV>
Q	C22C1/1057	3	{Reactive infiltration}	C22C1/1057, C22C1/059
D	C22C2001/1063	4	{Gas reaction, e.g. lanxide}	<administrative transfer to C22C1/1063 INV>
Q	C22C1/1063	4	{Gas reaction, e.g. lanxide}	C22C1/1063, C22C1/059
C	C22C1/1068	3	{Making hard metals based on borides, carbides, nitrides, oxides or silicides}	C22C1/1068, C22C1/059
D	C22C2001/1073	3	{Infiltration or casting under mechanical pressure, e.g. squeeze casting}	<administrative transfer to C22C1/1073 INV>
Q	C22C1/1073	3	{Infiltration or casting under mechanical pressure, e.g. squeeze casting}	C22C1/1073, C22C1/059
C	C22C1/1078	2	{by internal oxidation of material in solid state}	C22C1/1078, C22C1/057, C22C1/059
C	C22C1/1084	2	{by mechanical alloying (blending, milling)}	C22C1/1084, C22C1/057, C22C1/059
D	C22C2001/1089	2	{by partial reduction or decomposition of a solid metal compound}	<administrative transfer to C22C1/1089 INV>
Q	C22C1/1089	2	{by partial reduction or decomposition of a solid metal compound}	C22C1/1089, C22C1/057, C22C1/059
C	C22C1/1094	2	{comprising an after-treatment}	C22C1/1094, C22C1/059
N	C22C1/11	1	Making amorphous alloys	
N	C22C1/12	1	by processing in a semi-solid state, e.g. holding the alloy in the solid-liquid phase	
C	C22C32/00	0	Non-ferrous alloys containing at least 5% by weight but less than 50% by weight of oxides, carbides, borides, nitrides, silicides or other metal compounds, e.g. oxynitrides, sulfides, whether added as such or formed <u>in situ</u>	C22C32/00, C22C1/059
C	C22C32/0005	1	{with at least one oxide and at least one of carbides, nitrides, borides or silicides as the main non-metallic constituents}	C22C32/0005, C22C1/059
C	C22C32/001	1	{with only oxides}	C22C32/001, C22C1/059

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C	C22C32/0015	2	{with only single oxides as main non-metallic constituents}	C22C32/0015, C22C1/059
C	C22C32/0021	3	{Matrix based on noble metals, Cu or alloys thereof}	C22C32/0021, C22C1/059
C	C22C32/0026	3	{Matrix based on Ni, Co, Cr or alloys thereof}	C22C32/0026, C22C1/059, C22C33/0261
C	C22C32/0031	3	{Matrix based on refractory metals, W, Mo, Nb, Hf, Ta, Zr, Ti, V or alloys thereof}	C22C32/0031, C22C1/059
C	C22C32/0036	3	{Matrix based on Al, Mg, Be or alloys thereof}	C22C32/0036, C22C1/059
C	C22C32/0042	3	{Matrix based on low melting metals, Pb, Sn, In, Zn, Cd or alloys thereof}	C22C32/0042, C22C1/059
C	C22C32/0047	1	{with carbides, nitrides, borides or silicides as the main non-metallic constituents}	C22C32/0047, C22C1/059
C	C22C32/0052	2	{only carbides}	C22C32/0052, C22C1/059
C	C22C32/0057	3	{based on B <sub>4</sub> C}	C22C32/0057, C22C1/059
C	C22C32/0063	3	{based on SiC}	C22C32/0063, C22C1/059
C	C22C32/0068	2	{only nitrides}	C22C32/0068, C22C1/059
C	C22C32/0073	2	{only borides}	C22C32/0073, C22C1/059
C	C22C32/0078	2	{only silicides}	C22C32/0078, C22C1/059
C	C22C32/0084	1	{carbon or graphite as the main non-metallic constituent}	C22C32/0084, C22C1/059
C	C22C32/0089	1	{with other, not previously mentioned inorganic compounds as the main non-metallic constituent, e.g. sulfides, glass}	C22C32/0089, C22C1/059
C	C22C32/0094	1	{with organic materials as the main non-metallic constituent, e.g. resin}	C22C32/0094, C22C1/059
U	C22C33/0257	2	{characterised by the range of the alloying elements}	
N	C22C33/0261	3	{Matrix based on Fe for ODS steels}	
M	C22C45/00	0	Amorphous alloys (making amorphous non-ferrous alloys C22C1/11)	

\*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; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

## NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.

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- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalization projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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

**SUBCLASS C22C - ALLOYS (flints C06C 15/00; treatment of alloys C21D, C22F)**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning</u>
N	C22C1/04		Group C22C 1/04 is impacted by reclassification into group C22C 1/059. Groups C22C 1/04 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0408		Group C22C1/0408 is impacted by reclassification into group C22C1/059. Groups C22C 1/0408 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0416		Group C22C1/0416 is impacted by reclassification into group C22C1/059. Groups C22C 1/0416 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0425		Group C22C 1/0425 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0425 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0433		Group C22C 1/0433 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0433 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0441		Group C22C 1/0441 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0441 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/045		Group C22C1/045 is impacted by reclassification into group C22C 1/059. Groups C22C 1/045 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0458		Group C22C 1/0458 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0458 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0466		Group C22C 1/0466 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0466 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/047		Group C22C 1/047 is impacted by reclassification into group C22C 1/059. Groups C22C 1/047 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/0475		Group C22C 1/0475 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0475 and C22C 1/059 should be considered in order to perform a complete search.



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N	C22C1/0483		Group C22C 1/0483 is impacted by reclassification into group C22C 1/059. Groups C22C 1/0483 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/05		Group C22C 1/05 is impacted by reclassification into group C22C 1/059. Groups C22C 1/05 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/051		Group C22C 1/051 is incomplete pending reclassification of documents from group C22C 1/058. Group C22C 1/051 is also impacted by reclassification into groups C22C 1/057 and C22C 1/059. All groups listed in this Warning should be considered in order to perform a complete search.
N	C22C1/053		Group C22C 1/053 is incomplete pending reclassification of documents from group C22C 1/058. Group C22C 1/053 is also impacted by reclassification into group C22C 1/059. Groups C22C 1/058, C22C 1/053 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/055		Group C22C 1/055 is incomplete pending reclassification of documents from group C22C 1/058. Group C22C 1/055 is also impacted by reclassification into group C22C 1/059. Groups C22C 1/058, C22C 1/055 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/056		Group C22C 1/056 is incomplete pending reclassification of documents from group C22C 1/058. Group C22C 1/056 is also impacted by reclassification into group C22C 1/059. Groups C22C 1/058, C22C 1/056 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/057		Group C22C 1/057 is incomplete pending reclassification documents from groups C22C 1/051, C22C 1/058, C22C 1/1078, C22C 1/1084 and C22C 1/1089. All groups listed in this Warning should be considered in order to perform a complete search.
N	C22C1/058		Group C22C 1/058 is no longer used for the classification of documents as of January 1, 2023. The content of this group is being reclassified into groups C22C 1/051 - C22C 1/057 and C22C 1/059. Groups C22C 1/058, C22C 1/051-C22C 1/057 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/059		Group C22C 1/059 is incomplete pending reclassification documents from groups C22C 1/04, C22C 1/0408, C22C 1/0416, C22C 1/0425, C22C 1/0433, C22C 1/0441, C22C 1/045, C22C 1/0458, C22C 1/0466, C22C 1/047, C22C 1/0475, C22C 1/0483, C22C 1/05, C22C 1/051, C22C 1/053, C22C 1/055, C22C 1/056, C22C 1/058, C22C 1/10, C22C 1/1005, C22C 1/101, C22C 1/1015, C22C 1/1021, C22C 1/1026, C22C 1/1031, C22C 1/1036, C22C 1/1042, C22C 1/1047, C22C 1/1052, C22C 1/1057, C22C 1/1063,

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			C22C 1/1068, C22C 1/1073, C22C 1/1078, C22C 1/1084, C22C 1/1089, C22C 1/1094 and C22C 32/00 and all its subgroups. All groups listed in this Warning should be considered in order to perform a complete search.
N	C22C1/10		Group C22C 1/10 is impacted by reclassification into group C22C 1/059. Groups C22C 1/10 and C22C 1/059 should be considered in order to perform a complete search.
M	C22C1/1005	Groups C22C1/1005, C22C1/101 and C22C1/1015 are not complete, see also C22C1/10	Group C22C 1/1005 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1005 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/101		Group C22C 1/101 is impacted by reclassification into group C22C 1/059. Groups C22C 1/101 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1015		Group C22C 1/1015 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1015 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1021		Group C22C 1/1021 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1021 and C22C1/059 should be considered in order to perform a complete search.
N	C22C1/1026		Group C22C 1/1026 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1026 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1031		Group C22C 1/1031 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1031 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1036		Group C22C 1/1036 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1036 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1042		Group C22C 1/1042 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1042 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1047		Group C22C 1/1047 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1047 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1052		Group C22C 1/1052 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1052 and C22C 1/059 should be considered in order to perform a complete search.

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N	C22C1/1057		Group C22C 1/1057 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1057 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1063		Group C22C 1/1063 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1063 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1068		Group C22C 1/1068 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1068 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1073		Group C22C 1/1073 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1073 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1078		Group C22C 1/1078 is impacted by reclassification into groups C22C1/057 and C22C 1/059. Groups C22C 1/1078, C22C 1/057 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1084		Group C22C 1/1084 is impacted by reclassification into groups C22C 1/057 and C22C 1/059. Groups C22C 1/1084, C22C 1/057 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1089		Group C22C 1/1089 is impacted by reclassification into groups C22C 1/057 and C22C 1/059. Groups C22C 1/1089, C22C 1/057 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C1/1094		Group C22C 1/1094 is impacted by reclassification into group C22C 1/059. Groups C22C 1/1094 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/00		Group C22C 32/00 is impacted by reclassification into group C22C 1/059. Groups C22C 32/00 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/0005		Group C22C 32/0005 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0005 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/001		Groups C22C 32/001, C22C 32/0015 and C22C 32/0021 are impacted by reclassification into group C22C 1/059. All groups listed in this Warning should be considered in order to perform a complete search.
N	C22C32/0026		Group C22C 32/0026 is impacted by reclassification into groups C22C 1/059 and C22C 33/0261. Groups C22C 32/0026, C22C 1/059 and C22C 33/0261 should be considered in order to perform a complete search.
N	C22C32/0031		Group C22C 32/0031 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0031 and C22C

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			1/059 should be considered in order to perform a complete search.
N	C22C32/0036		Group C22C 32/0036 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0036 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/0042		Group C22C 32/0042 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0042 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/0047		Groups C22C 32/0047, C22C 32/0052, C22C 32/0057, C22C 32/0063, C22C 32/0068, C22C 32/0073 and C22C 32/0078 are impacted by reclassification into group C22C 1/059. All groups listed in this Warning should be considered in order to perform a complete search.
N	C22C32/0084		Group C22C 32/0084 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0084 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/0089		Group C22C 32/0089 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0089 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C32/0094		Group C22C 32/0094 is impacted by reclassification into group C22C 1/059. Groups C22C 32/0094 and C22C 1/059 should be considered in order to perform a complete search.
N	C22C33/0261		Group C22C 33/0261 is incomplete pending reclassification of documents from group C22C 32/0026. Groups C22C 32/0026 and C22C 33/0261 should be considered in order to perform a complete search.

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

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

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D. New, Modified or Deleted Guidance Heading(s)**SUBCLASS C22C - ALLOYS (flints C06C 15/00; treatment of alloys C21D, C22F)**

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	C22C1/00 - C22C32/00	Non-ferrous alloys, i.e. alloys based essentially on metals other than iron (master alloys for iron and steel C22C 35/00; alloys containing radioactive material C22C 43/00; amorphous alloys C22C 45/00; alloys containing fibres or filaments C22C 47/00, C22C 49/00)	Non-ferrous alloys, i.e. alloys based essentially on metals other than iron
M	C22C33/00 - C22C45/00	Ferrous alloys, i.e. alloys based on iron (alloys containing radioactive material C22C 43/00; amorphous alloys C22C 45/00; alloys containing fibres or filaments C22C 47/00, C22C 49/00; heat treatment thereof C21D)	Ferrous alloys, i.e. alloys based on iron
M	C22C2202/00 - C22C2204/00	Non-ferrous alloys, i.e. alloys based essentially on metals other than iron (master alloys for iron and steel C22C 35/00; alloys containing radioactive material C22C 43/00; amorphous alloys C22C 45/00; alloys containing fibres or filaments C22C 47/00, C22C 49/00)	Non-ferrous alloys, i.e. alloys based essentially on metals other than iron

\*N = new guidance heading, M =modified guidance heading, D = deleted guidance heading

## NOTES:

- The "Location" column requires the symbol AFTER the guidance heading location. No further directions such as "before" or "after" are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the "Location" column. For example, the guidance heading "Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen" encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the "Location" column as follows: 398/00 to be included under the guidance heading: "Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen."

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## DEFINITIONS (New)

Insert: The following new Definitions:

### C22C 1/051

#### Definition statement

*This place covers:*

- Making hard metals based on borides, carbides, nitrides, oxides or silicides by powder metallurgy.
- Preparation of the powder mixture used as the starting material therefor.

#### References

##### Informative references

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

Composition of cermets	<a href="#">C22C 29/00</a>
Composition of non-ferrous alloys with 5-50% metal compounds	<a href="#">C22C 32/00</a>

### C22C 1/053

#### Definition statement

*This place covers:*

Hard compounds that are generated in situ in the matrix by reaction during the preparation process.

#### Glossary of terms

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

In situ formation	The phase formed (whether metal or non-metal) is not added in advance, but is generated in situ in the matrix by reaction during the entire process of
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	preparing the alloy, including powder treatment, sintering, etc.
--	--

### **C22C 1/055**

#### **Definition statement**

*This place covers:*

In situ formation of hard compounds by reacting with carbon during the preparation process.

### **C22C 1/056**

#### **Definition statement**

*This place covers:*

In situ formation of hard compounds by reacting with gas during the preparation process.

### **C22C 1/057**

#### **Definition statement**

*This place covers:*

In situ formation of a second phase, e.g. metal phase, other than hard compounds by solid state reaction sintering during the preparation process.

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## **C22C 1/059**

### **Definition statement**

*This place covers:*

Preparation of alloys based on metals and containing less than 5% by weight of dispersed reinforcing phases.

### **Glossary of terms**

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

Dispersed reinforcing phase	The ultrafine second phase (hardened phase) for reinforcing alloys, which is insoluble in a base metal.
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### **Synonyms and Keywords**

*In patent documents, the following words/expressions are often used as synonyms:*

- "dispersed reinforcing phases", "dispersion reinforced phases" and "dispersion strengthened phases"



## 2. A. DEFINITIONS (modified)

### C22C1/00

#### Definition statement

Replace: The existing Definition statement with the following revised text:

Methods for making non-ferrous alloys.

Insert: The following new Relationships with other classification places section:

#### Relationships with other classification places

When the alloy is produced by a specifically disclosed process, then the process is also classified, e.g. in subclasses C22F, C21D, B22F, C23C, B23K, C25D, C25B, B22D, B21J, B21B, B21C.

Methods of making alloys containing metallic or non-metallic fibres or filaments are classified in group C22C 47/00.

#### References

#### Limiting references

Replace: The existing Limiting references table with the following revised table:

Making non-ferrous alloys by electrothermic methods	C22B 4/00
Making non-ferrous alloys by electrolysis	C25C 1/24, C25C 3/36

#### Informative references

Replace: The existing Informative references table with the following revised table:

Working metallic powder; Apparatus or processes for powder metallurgy; Making metallic powder	B22F
Soldering or welding (materials)	B23K, B23K 35/00
Refining of metals	C22B
Alloy compositions	C22C 5/00 - C22C 45/00

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Methods of making ferrous amorphous alloys	C22C 33/003
Changing the physical structure of ferrous metals/alloys	C21D
Changing the physical structure of non-ferrous metals/alloys	C22F
Coating	C23C
Electrolytic production or refining of metals	C25C
Electroplating	C25D
Crystal growth	C30B

Delete: The entire Special rules of classification section.

Insert: The following new Glossary of terms section:

**Glossary of terms**

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

In situ formation	The phase formed (whether metal or non-metal) is not added in advance, but is generated in situ in the matrix by reaction during the entire process of preparing the alloy, including powder treatment, sintering, etc.
Reaction sintering	The powder raw material undergoes a chemical reaction at a certain temperature and simultaneously performs densification and synthesis of the specified components to obtain a predetermined sintered body.

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**C22C 1/04****Definition statement**

Replace: The existing Definition statement text with the following revised text:

Non-ferrous alloys made by powder metallurgy containing only metallic or intermetallic constituents.

**Relationships with other classification places**

Replace: The existing Relationships text with the following revised text:

Subclass B22F covers processes of making or treating metallic powders, working metallic powders, and making workpieces or articles therefrom.

**References****Limiting references**

Replace: The existing Limiting references table with the following revised table:

Alloys with open or closed pores	<a href="#">C22C 1/08</a>
----------------------------------	---------------------------

**Informative references**

Insert: The following five new rows into the Informative references table:

Rods, electrodes, materials or media, for use in soldering, welding or cutting	<a href="#">B23K 35/00</a>
Selenium, Tellurium; compounds thereof	<a href="#">C01B 19/00</a>
Silicon, compounds thereof	<a href="#">C01B 33/02</a>
Ceramic products containing shaped metallic materials	<a href="#">C04B 35/74</a>
Single crystals or homogeneous polycrystalline material with defined structure, e.g. directionally solidified	<a href="#">C30B 29/00</a>

**Special rules of classification**

Replace: The existing Special rules section text with the following updated text:

The alloys are classified according to their main component in one of the subgroups [C22C1/0408](#) - [C22C1/0483](#):

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- [C22C1/0408](#): alkali, alkaline earth, Be, Mg, Al (when not specific);
- [C22C1/0416](#): Al, when specific;
- [C22C1/0425](#): Cu;
- [C22C1/0433](#): Ni or Co;
- [C22C1/0441](#): Ni or Co including intermetallic compounds of RE-type;
- [C22C1/045](#): V, Cr, Nb, Mo, Ta, W, Re (Ti, Zr, Hf when not specific);
- [C22C1/0458](#): Ti, Zr, Hf when specific;
- [C22C1/0466](#): Ag, Au, Os, Ir, Pt, Ru, Rh, Pd;
- [C22C1/047](#): comprising intermetallic compounds;
- [C22C1/0475](#): impregnated alloys;
- [C22C1/0483](#): low melting point metals are Zn, Pb, Sn, Cd, In and Ga.

## **C22C 1/05**

### **Definition statement**

Replace: The existing Definition statement with the following revised statement:

Making non-ferrous alloys by using mixtures of metal powder with non-metallic powder as starting materials. Non-metallic powders include hard compounds, graphene, sulfides, organic materials, etc.

Insert: The following new Relationships section:

### **Relationships with other classification places**

When specific processes or process steps of powder metallurgy are not covered by any of the subgroups of group C22C 1/05 and covered by subclass B22F, classification should be made in both parent group C22C 1/05 and in the relevant groups of subclass B22F, in order not to lose potentially relevant information.

### **References**

Insert: The following new Limiting references section:

### **Limiting references**

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*This place does not cover:*

Alloys with open or closed pores	C22C 1/08
----------------------------------	-----------

Delete: The entire Informative references section.

Delete: The entire Special rules of classification section.

### **C22C 1/08**

#### **Definition statement**

Replace: The existing Definition statement with the following revised statement:  
Porous products obtained by processes involving a molten metal bath.

#### **References**

##### **Informative references**

Insert: The following new row into the Informative references table:

Making porous workpieces or articles	B22F 3/11
--------------------------------------	-----------

Delete: The entire Special rules of classification section.

### **C22C 1/10**

#### **References**

##### **Limiting references**

Insert: The following new row into the Limiting references table:

Alloys with open or closed pores	C22C 1/08
----------------------------------	-----------

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### Special rules of classification

Replace: Just the first paragraph of the Special rules section text so that the entire text appears as follows:

Spray casting composite powder, including fibres: [C22C1/1042](#).

When a filler material can only be of a fibrous nature, classification is made in group [C22C47/00](#), [C22C49/00](#). When the filler material is chosen from alternatives which can be fibrous or non-fibrous, classification is made in group [C22C1/10](#). When both fibrous and non-fibrous fillers are present, classification is made in group [C22C47/00](#), [C22C49/00](#) and also in group [C22C32/00](#) if the composition is of importance.

### C22C 32/00

#### Definition statement

Replace: The existing Definition statement with the following revised text:

Dispersion hardened alloys with less than 5wt% of dispersed compounds, e.g. ODS aluminium are also classified in this group.

#### References

Delete: The entire Limiting references section.

#### Informative references

Insert: The following three new rows into the Informative references table:

Laminates	<a href="#">B32B</a>
Alloys containing cubic or wurtzitic Boron Nitrides, diamonds	<a href="#">C22C 26/00</a>
Ferrous alloys (by powder metallurgy)	<a href="#">C22C 33/02</a>

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## Special rules of classification

Replace: The existing Special rules text with the following revised text:

Depending on the composition of the main metallic or non-metallic compound, the composition is classified in one of the subgroups of [C22C 32/00](#).

Exception: ODS steels (including those containing less than 5wt% Oxide Dispersions) are classified in [C22C 33/0261](#) when the oxide dispersions are the single non-metallic constituent.

All other ferrous alloys obtained by powder metallurgy and having metallic or non-metallic compounds therein are classified in [C22C 33/0214](#) - [C22C 33/0228](#) or [C22C 33/0292](#).

When a filler material can only be of a fibrous nature, classification is made in groups [C22C 47/00](#) and [C22C 49/00](#). When the filler material is chosen from alternatives which can be fibrous or non-fibrous, classification is made in group [C22C 1/10](#). When both fibrous and non-fibrous fillers are present, classification is made in groups [C22C 47/00](#) and [C22C 49/00](#) and also in group [C22C 32/00](#) if the composition is of importance.

## C22C 45/00

### Definition statement

Replace: The existing Definition statement with the following revised text:

Amorphous alloys and metallic glasses.

### Relationships with other classification places

Replace: The existing Relationships section text with the following revised text:

The methods of making Fe-based amorphous alloys are classified in [C22C 33/003](#).

Semi-amorphous alloys are classified both as amorphous and as crystalline ones having a corresponding [C22C 45/00](#) subclass and [C22C 5/00](#) - [C22C 38/00](#) subclasses.

When the alloy is intended for a particular use/product then the use/product is classified as well.

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## References

### Limiting references

Replace: The existing Limiting references table with the following revised table:

Making amorphous non-ferrous alloys	C22C 1/11
-------------------------------------	-----------

### Informative references

Insert: The following new row into the Informative references table:

Ceramics	C04B
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Insert: A hyphen between “non ferrous” so the table row reads as follows:

Changing the physical structure of non-ferrous alloys	C22F
---	------

### Special rules of classification

Replace: The existing Special rules text with the following revised text:

Depending on the major constituent, i.e. the base of the alloy, the corresponding C22C 45/00 subgroup is given.

Fe-based amorphous alloys are classified in C22C 45/02.

Ni or Co-based amorphous alloys are classified in C22C 45/04.

Amorphous alloys with a major constituent which is not disclosed in any of C22C 45/001 - C22C 45/10 classes are classified in C22 C45/00.



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3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	C22C 1/002	<administrative transfer to C22C 1/11>
D	C22C 1/005	<administrative transfer to C22C 1/12>
C	C22C 1/04	C22C 1/04, C22C 1/059
C	C22C 1/0408	C22C 1/0408, C22C 1/059
C	C22C 1/0416	C22C 1/0416, C22C 1/059
C	C22C 1/0425	C22C 1/0425, C22C 1/059
C	C22C 1/0433	C22C 1/0433, C22C 1/059
C	C22C 1/0441	C22C 1/0441, C22C 1/059
C	C22C 1/045	C22C 1/045, C22C 1/059
C	C22C 1/0458	C22C 1/0458, C22C 1/059
C	C22C 1/0466	C22C 1/0466, C22C 1/059
Q	C22C 1/047	C22C 1/047, C22C 1/059
C	C22C 1/0475	C22C 1/0475, C22C 1/059
C	C22C 1/0483	C22C 1/0483, C22C 1/059
D	C22C 1/0491	<administrative transfer to C22C 1/047>
C	C22C 1/05	C22C 1/05, C22C 1/059
C	C22C 1/051	C22C 1/051, C22C 1/057, C22C 1/059
C	C22C 1/053	C22C 1/053, C22C 1/059
C	C22C 1/055	C22C 1/055, C22C 1/059
C	C22C 1/056	C22C 1/056, C22C 1/059
F	C22C 1/058	C22C 1/051, C22C 1/053, C22C 1/055, C22C 1/056, C22C 1/057, C22C 1/059
D	C22C 2001/081	<administrative transfer to C22C 1/081 INV>
D	C22C 2001/082	<administrative transfer to C22C 1/082 INV>
D	C22C 2001/083	<administrative transfer to C22C 1/083 INV>
D	C22C 2001/085	<administrative transfer to C22C 1/085 INV>
D	C22C 2001/086	<administrative transfer to C22C 1/086 INV>
D	C22C 2001/087	<administrative transfer to C22C 1/087 INV>
D	C22C 2001/088	<administrative transfer to C22C 1/088 INV>
C	C22C 1/10	C22C 1/10, C22C 1/059
C	C22C 1/1005	C22C 1/1005, C22C 1/059
C	C22C 1/101	C22C 1/101, C22C 1/059
C	C22C 1/1015	C22C 1/1015, C22C 1/059
D	C22C 2001/1021	<administrative transfer to C22C 1/1021 INV>
Q	C22C 1/1021	C22C 1/1021, C22C 1/059
C	C22C 1/1026	C22C 1/1026, C22C 1/059
C	C22C 1/1031	C22C 1/1031, C22C 1/059
C	C22C 1/1036	C22C 1/1036, C22C 1/059
C	C22C 1/1042	C22C 1/1042, C22C 1/059
D	C22C 2001/1047	<administrative transfer to C22C 1/1047 INV>
Q	C22C 1/1047	C22C 1/1047, C22C 1/059
D	C22C 2001/1052	<administrative transfer to C22C 1/1052 INV>
Q	C22C 1/1052	C22C 1/1052, C22C 1/059
D	C22C 2001/1057	<administrative transfer to C22C 1/1057 INV>
Q	C22C 1/1057	C22C 1/1057, C22C 1/059
D	C22C 2001/1063	<administrative transfer to C22C 1/1063 INV>

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
Q	C22C 1/1063	C22C 1/1063, C22C 1/059
C	C22C 1/1068	C22C 1/1068, C22C 1/059
D	C22C 2001/1073	<administrative transfer to C22C 1/1073 INV>
Q	C22C 1/1073	C22C 1/1073, C22C 1/059
C	C22C 1/1078	C22C 1/1078, C22C 1/057, C22C 1/059
C	C22C 1/1084	C22C 1/1084, C22C 1/057, C22C 1/059
D	C22C 2001/1089	<administrative transfer to C22C 1/1089 INV>
Q	C22C 1/1089	C22C 1/1089, C22C 1/057, C22C 1/059
C	C22C 1/1094	C22C 1/1094, C22C 1/059
C	C22C 32/00	C22C 32/00, C22C 1/059
C	C22C 32/0005	C22C 32/0005, C22C 1/059
C	C22C 32/001	C22C 32/001, C22C 1/059
C	C22C 32/0015	C22C 32/0015, C22C 1/059
C	C22C 32/0021	C22C 32/0021, C22C 1/059
C	C22C 32/0026	C22C 32/0026, C22C 1/059, C22C 33/0261
C	C22C 32/0031	C22C 32/0031, C22C 1/059
C	C22C 32/0036	C22C 32/0036, C22C 1/059
C	C22C 32/0042	C22C 32/0042, C22C 1/059
C	C22C 32/0047	C22C 32/0047, C22C 1/059
C	C22C 32/0052	C22C 32/0052, C22C 1/059
C	C22C 32/0057	C22C 32/0057, C22C 1/059
C	C22C 32/0063	C22C 32/0063, C22C 1/059
C	C22C 32/0068	C22C 32/0068, C22C 1/059
C	C22C 32/0073	C22C 32/0073, C22C 1/059
C	C22C 32/0078	C22C 32/0078, C22C 1/059
C	C22C 32/0084	C22C 32/0084, C22C 1/059
C	C22C 32/0089	C22C 32/0089, C22C 1/059
C	C22C 32/0094	C22C 32/0094, C22C 1/059

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

NOTES:

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

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C22C 1/002		DELETE
C22C 1/005		DELETE
C22C 1/047	C22C 1/047	NEW
C22C 1/0491		DELETE
C22C 1/051	C22C 1/051	UPDATE
C22C 1/053	C22C 1/053	UPDATE
C22C 1/055	C22C 1/055	UPDATE
C22C 1/056	C22C 1/056	UPDATE
C22C 1/057	C22C 1/057	NEW
C22C 1/059	C22C 1/059	NEW
C22C 2001/081		DELETE
C22C 1/081	C22C 1/08	NEW
C22C 2001/082		DELETE
C22C 1/082	C22C 1/08	NEW
C22C 2001/083		DELETE
C22C 1/083	C22C 1/08	NEW
C22C 2001/085		DELETE
C22C 1/085	C22C 1/08	NEW
C22C 2001/086		DELETE
C22C 1/086	C22C 1/08	NEW
C22C 2001/087		DELETE
C22C 1/087	C22C 1/08	NEW
C22C 2001/088		DELETE
C22C 1/088	C22C 1/08	NEW
C22C 2001/1021		DELETE
C22C 1/1021	C22C 1/10	NEW
C22C 2001/1047		DELETE
C22C 1/1047	C22C 1/10	NEW
C22C 2001/1052		DELETE
C22C 1/1052	C22C 1/10	NEW
C22C 2001/1057		DELETE
C22C 1/1057	C22C 1/10	NEW
C22C 2001/1063		DELETE
C22C 1/1063	C22C 1/10	NEW
C22C 2001/1073		DELETE
C22C 1/1073	C22C 1/10	NEW
C22C 2001/1089		DELETE
C22C 1/1089	C22C 1/10	NEW
C22C 1/11	C22C 1/11	NEW
C22C 1/12	C22C 1/12	NEW
C22C 33/0261	C22C 33/02	NEW

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\*Action column:

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

NOTES:

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

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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>
B22F3/23	C22C1/058	<u>Replace</u> with new symbol C22C1/051

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>
C04B35/65	C22C1/058	Limiting References	<u>Replace</u> with new symbol C22C1/051
C22C	C22C1/002	Special Rules	<u>Replace</u> with new symbol C22C1/11
C22C33/00	C22C1/002	Relationship	<u>Replace</u> with new symbol C22C1/11
C22C38/00	C22C1/002	Special Rules	<u>Replace</u> with new symbol C22C1/11
C22C38/00	C22C30/60	Special Rules	<u>Replace</u> with new symbol C22C38/60

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.