

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1124

DATE: AUGUST 1, 2021

PROJECT RP0726

Effective August 1, 2021, the intellectual reclassification originally indicated in RP0707 has been resolved and implemented. With this project and the February 16, 2021 corrections, the issues introduced in the original January 2021 release have been fully resolved.

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Warnings New:	B22F	10/12, 10/14, 10/16, 10/18, 10/22, 10/25, 10/28, 10/31, 10/32, 10/34, 10/36, 10/37, 10/38, 10/39, 10/43, 10/47, 10/68, 10/73, 10/77
	B22F	12/10, 12/20, 12/22, 12/30, 12/38, 12/40, 12/50, 12/60, 12/70, 12/80, 12/90
Warnings Modified:	B22F	10/00, 10/10, 10/20, 10/30, 10/40, 10/50, 10/60, 10/70, 10/80
	B22F	12/00
Notes New:	B22F	2998/00, 2998/10, 2999/00
Notes Modified:	B22F	SUBCLASS
DEFINITIONS:		
Definitions New:	B22F	2998/00, 2998/10, 2999/00
Definitions Modified:	B22F	SUBCLASS

The following subclasses/groups are also impacted by this Notice of Changes : B33Y

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 B22F-WORKING METALLIC POWDER; MANUFACTURE OF ARTICLES FROM METALLIC POWDER; MAKING METALLIC POWDER (processes or devices for granulating materials in general B01J2/00; making ceramics by compacting or sintering C04B, e.g. C04B 35/64; for the production of metals as such, see class C22; reduction or decomposition of metal compounds in general C22B; making alloys by powder metallurgy C22C; electrolytic production of metal powder C25C 5/00)

<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>
C	B22F 3/00	0	Manufacture of workpieces or articles from metallic powder characterised by the manner of compacting or sintering; Apparatus specially adapted therefor {; Presses and furnaces}	B22F 3/00, B22F10/00, B22F 10/10, B22F 10/12, B22F 10/14, B22F 10/16, B22F 10/18, B22F 10/20, B22F 10/22, B22F 10/25, B22F 10/28, B22F 10/30, B22F 10/31, B22F 10/32, B22F 10/322, B22F 10/34, B22F 10/36, B22F 10/362, B22F 10/364, B22F 10/366, B22F 10/368, B22F 10/37, B22F 10/38, B22F 10/385, B22F 10/39, B22F 10/40, B22F 10/43, B22F 10/47, B22F 10/50, B22F 10/60, B22F 10/62, B22F 10/64, B22F 10/66, B22F 10/68, B22F 10/70, B22F 10/73, B22F 10/77, B22F 10/80, B22F 10/85, B22F 12/00, B22F 12/10, B22F 12/13, B22F 12/17, B22F 12/20, B22F 12/22, B22F 12/222, B22F 12/224, B22F 12/226, B22F 12/30, B22F 12/33, B22F 12/37, B22F 12/38, B22F 12/40, B22F 12/41, B22F 12/42, B22F 12/43, B22F 12/44, B22F 12/45, B22F 12/46, B22F 12/47, B22F 12/48, B22F 12/49, B22F 12/50, B22F 12/52, B22F 12/53, B22F 12/55, B22F 12/57, B22F 12/58, B22F 12/60, B22F 12/63,

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<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>
				B22F 12/67, B22F 12/70, B22F 12/80, B22F 12/82, B22F 12/84, B22F 12/86, B22F 12/88, B22F 12/90
T	B22F 10/00	0	Additive manufacturing of workpieces or articles from metallic powder (apparatus or devices therefor B22F 12/00)	
C	B22F 10/10	1	Formation of a green body	B22F10/10, B22F10/12, B22F10/14, B22F10/16, B22F10/18
C	B22F10/20	1	Direct sintering or melting	B22F10/20, B22F10/22, B22F10/25, B22F10/28
C	B22F 10/30	1	Process control	B22F10/30, B22F10/31, B22F10/32, B22F 10/322, B22F10/34, B22F10/36, B22F10/362, B22F10/364, B22F10/366, B22F10/368, B22F10/37, B22F10/38, B22F10/385, B22F10/39, B22F 10/80, B22F 10/85
C	B22F 10/40	1	Structures for supporting workpieces or articles during manufacture and removed afterwards	B22F10/40, B22F10/43, B22F10/47
C	B22F 10/70	1	Recycling	B22F 10/68, B22F10/70, B22F10/73, B22F10/77
C	B22F 12/00	0	Apparatus or devices specially adapted for additive manufacturing; Auxiliary means for additive manufacturing; Combinations of additive manufacturing apparatus or devices with other processing apparatus or devices	B22F 12/00, B22F 12/10, B22F 12/13, B22F 12/17, B22F 12/20, B22F 12/22, B22F 12/222, B22F 12/224, B22F 12/226, B22F 12/30, B22F 12/33, B22F 12/37, B22F 12/38, B22F 12/40, B22F 12/41, B22F12/42, B22F 12/43, B22F 12/44, B22F 12/45, B22F 12/46, B22F 12/47, B22F 12/48, B22F 12/49, B22F 12/50,

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<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>
				B22F 12/52, B22F 12/53, B22F 12/55, B22F 12/57, B22F 12/58, B22F 12/60, B22F 12/63, B22F 12/67, B22F 12/70, B22F 12/80, B22F 12/82, B22F 12/84, B22F 12/86, B22F 12/88, B22F 12/90

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

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B. New, Modified or Deleted Warning(s)

SUBCLASS B22F-WORKING METALLIC POWDER; MANUFACTURE OF ARTICLES FROM METALLIC POWDER; MAKING METALLIC POWDER (processes or devices for granulating materials in general B01J 2/00; making ceramics by compacting or sintering C04B, e.g. C04B 35/64; for the production of metals as such, see class C22; reduction or decomposition of metal compounds in general C22B; making alloys by powder metallurgy C22C; electrolytic production of metal powder C25C 5/00)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	B22F 10/00	Group B22F 10/00 is incomplete pending reclassification of documents from group B22F 3/00. Group B22F 10/00 is also impacted by reclassification into groups B22F 10/10 - B22F 12/90. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 10/00 is incomplete pending reclassification of documents from group B22F 3/00. Groups B22F 3/00 and B22F 10/00 should be considered in order to perform a complete search.
M	B22F 10/10	Groups B22F 10/10 - B22F 10/18 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 10/10 is incomplete pending reclassification of documents from group B22F 3/00. Group B22F 10/10 is also impacted by reclassification into groups B22F 10/12 - B22F 10/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/12		Group B22F 10/12 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/14		Group B22F 10/14 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/10. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B22F 10/16		Group B22F 10/16 is incomplete pending reclassification of documents from groups B22F3/00 and B22F 10/10. All groups listed in this Warnings should be considered in order to perform a complete search.
N	B22F 10/18		Group B22F 10/18 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/10. All groups listed in this Warning should be considered in order to perform a complete search.
M	B22F 10/20	Groups B22F 10/20 - B22F 10/28 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 10/20 is incomplete pending reclassification of documents from group B22F 3/00. Group B22F 10/20 is also impacted by reclassification into groups B22F 10/22 - B22F 10/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/22		Group B22F 10/22 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/20. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/25		Group B22F 10/25 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/20. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/28		Group B22F 10/28 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/20. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	B22F 10/30	Groups B22F 10/30 - B22F 10/39 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 10/30 is incomplete pending reclassification of documents from group B22F 3/00. Group B22F 10/30 is also impacted by reclassification into groups B22F 10/31 - B22F 10/39, B22F 10/80 and B22F 10/85. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/31		Group B22F 10/31 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/32		Groups B22F 10/32 and B22F 10/322 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/34		Group B22F 10/34 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/36		Groups B22F 10/36, B22F 10/362, B22F 10/364, B22F 10/366 and B22F 10/368 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/37		Group B22F 10/37 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B22F 10/38		Groups B22F 10/38 and B22F 10/385 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/39		Group B22F 10/39 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. Groups B22F 3/00, B22F 10/30 and B22F 10/39 should be considered in order to perform a complete search.
M	B22F 10/40	Groups B22F 10/40 - B22F 10/47 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 10/40 is incomplete pending reclassification of documents from group B22F 3/00. Group B22F 10/40 is also impacted by reclassification into groups B22F 10/43 and B22F 10/47. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/43		Group B22F 10/43 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/40. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/47		Group B22F 10/47 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/40. All groups listed in this Warning should be considered in order to perform a complete search.
M	B22F10/50	Group B22F 10/50 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. Groups B22F 3/00, B22F 10/00, and B22F 10/50 should be considered in order to perform a complete search.	Group B22F 10/50 is incomplete pending reclassification of documents from group B22F 3/00. Groups B22F 3/00 and B22F 10/50 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	B22F10/60	Groups B22F 10/60 - B22F 10/68 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Groups B22F 10/60, B22F 10/62, B22F 10/64 and B22F 10/66 are incomplete pending reclassification of documents from group B22F 3/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/68		Group B22F 10/68 is incomplete pending to reclassification of documents from groups B22F 3/00 and B22F 10/70. All groups listed in this Warning should be considered in order to perform a complete search.
M	B22F 10/70	Groups B22F 10/70 - B22F 10/77 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 10/70 is incomplete pending to reclassification of documents from group B22F 3/00. Group B22F 10/70 is also impacted by reclassification into groups B22F 10/68, B22F 10/73 and B22F 10/77. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/73		Group B22F 10/73 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/70. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 10/77		Group B22F 10/77 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/70. All groups listed in this Warning should be considered in order to perform a complete search.
M	B22F10/80	Groups B22F 10/80 and B22F 10/85 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Groups B22F 10/80 and B22F 10/85 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/30. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	B22F 12/00	Groups B22F 12/00 - B22F 12/90 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 10/00. All groups listed in this Warning should be considered in order to perform a complete search.	Group B22F 12/00 is incomplete pending to reclassification of documents from group B22F 3/00. Group B22F 12/00 is also impacted by reclassification into groups B22F 12/10 - B22F 12/90. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 12/10		Groups B22F 12/10, B22F 12/13 and B22F 12/17 are incomplete pending to reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 12/20		Group B22F 12/20 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 12/22		Groups B22F 12/22 - B22F 12/226 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 12/30		Groups B22F 12/30 - B22F 12/37 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	B22F 12/38		Group B22F 12/38 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B22F 12/40		Groups B22F 12/40 - B22F 12/49 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warnings should be considered in order to perform a complete search.
N	B22F 12/50		Groups B22F 12/50 - B22F 12/58 are incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warnings should be considered in order to perform a complete search.
N	B22F 12/60		Groups B22F 12/60, B22F 12/63 and B22F 12/67 are incomplete pending to reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warnings should be considered in order to perform a complete search.
N	B22F 12/70		Group B22F 12/70 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warnings should be considered in order to perform a complete search.
N	B22F 12/80		Groups B22F 12/80 - B22F 12/88 are incomplete pending to reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warnings should be considered in order to perform a complete search.
N	B22F 12/90		Group B22F 12/90 is incomplete pending reclassification of documents from groups B22F 3/00 and B22F 12/00. All groups listed in this Warnings 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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C. New, Modified or Deleted Note(s)

SUBCLASS B22F - WORKING METALLIC POWDER; MANUFACTURE OF ARTICLES FROM METALLIC POWDER; MAKING METALLIC POWDER (processes or devices for granulating materials in general B01J 2/00; making ceramics by compacting or sintering C04B, e.g. C04B 35/64; for the production of metals as such, see class C22; reduction or decomposition of metal compounds in general C22B; making alloys by powder metallurgy C22C; electrolytic production of metal powder C25C 5/00)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	B22F	<ol style="list-style-type: none"> 1. This subclass covers the making of metallic powder only insofar as powder with specific physical characteristics is made; 2. In this subclass, the following terms or expressions are used with the meanings indicated: <ul style="list-style-type: none"> • "metallic powder" covers powders containing a substantial proportion of non-metallic material; • "powder" includes somewhat larger particles which are worked, obtained or behave in a manner similar to powder, e.g. fibres. 	<p><u>Insert:</u> The following <u>third</u> Note.</p> <ol style="list-style-type: none"> 3. {In this subclass, combination sets (C-Sets) are used. Detailed information about C-Sets construction and the associated syntax rules is found in the definitions for B22F.}
N	B22F 2998/00		<p><u>Insert:</u> The following new Note.</p> <p>In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions.</p>
N	B22F 2998/10		<p><u>Insert:</u> The following new Note.</p> <p>In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	B22F 2999/00		<u>Insert:</u> The following new Note. In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntaxrules is found in the Definitions.

*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 (new)

Insert: The following new Definitions.

B22F 2998/00

Special rules of classification

Combination sets (C-Sets):

C-Sets statement: #B22Fa

- In group B22F2998/00, supplementary information concerning processes related to powder metallurgy is classified in the form of C-Sets.
- In these C-Sets, the base symbol is B22F2998/00, whereas the subsequent symbol(s) representing the processes related to powder metallurgy are taken from the groups B22F1/00 - B22F2207/20, C22C1/00 - C22C2204/00 (including breakdown indexing codes), and other subclasses from other fields.
- C-Sets #B22Fa is always allocated as additional information (ADD).
- #B22Fa is actually rarely used in practice.

C-Sets syntax rules:

- Each C-Sets can contain two or more symbols.
- Duplicate symbols are not allowed in these C-Sets.
- Breakdown codes are allowed as subsequent symbols.
- The order of C-Sets is as follows: B22F2998/00 is always used as a base symbol, while the order of the subsequent symbols in these C-Sets is not relevant.
- The subsequent symbols are not arranged in alphanumeric order.

C-Sets examples:

- #B22Fa: A method of forming (B22F2998/00) a product can be by injection moulding, additive manufacturing or extrusion, not being particularly claimed or having a preference, is classified as (B22F2998/00, B22F3/225, B22F3/20, B22F10/00) (ADD).

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B22F 2998/10

Special rules of classification

Combination sets (C-Sets):

C-Sets statement: #B22Fb

- In group B22F2998/10, supplementary information concerning processes characterised by process steps is classified in the form of C-Sets.
- In these C-Sets, the base symbol is B22F2998/10, whereas the subsequent symbol(s) representing the processes or composition related to powder metallurgy are taken from the groups B22F1/00 - B22F2207/20, C22C1/00 - C22C2204/00 (including breakdown indexing codes), and other subclasses from other fields.
- C-Sets #B22Fb is always allocated as ADD.

C-Sets syntax rules:

- Each C-Sets can contain two or more symbols.
- Duplicate symbols are allowed in these C-Sets but not consecutively.
- Breakdown codes are allowed as subsequent symbols.
- The order of symbols in these C-Sets is relevant. B22F2999/00 is always used as a base symbol, while subsequent symbols reflect the sequence of steps performed in the process.
- In these C-Sets the symbols are not arranged in alphanumerical order.

C-Sets examples:

- #B22Fb: A process (B22F2998/10) comprising specifically a mixture of metal powder and resin (B22F1/0059), a mould filled with this powder (B22F3/004), pressed (B22F3/02) and sintered with removal of binder (B22F3/1021) is classified as (B22F 2998/10, B22F 1/0059, B22F 3/004, B22F 3/02, B22F3/1021) (ADD).
- #B22Fb: A process (B22F2998/10) comprising specifically a workpiece manufactured by selective laser melting (B22F10/28) followed by hot isostatic pressing (B22F3/15) is classified as (B22F2998/10, B22F10/28, B22F3/15) (ADD).

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B22F 2999/00

Special rules of classification

Combination sets (C-Sets):

C-Sets statement: #B22Fc

- In group B22F2999/00, aspects linked to processes or compositions used in powder metallurgy is classified in the form of C-Sets.
- In these C-Sets, the base symbol is B22F2999/00, whereas the subsequent symbol(s) representing the processes or composition related to powder metallurgy are taken from the groups B22F1/00 - B22F2207/20, C22C1/00 - C22C2204/00 (including breakdown indexing codes), and other subclasses from other fields.
- C-Sets #B22Fc is always allocated as ADD.

C-Sets syntax rules:

- Each C-Sets can contain two or more symbols.
- Duplicate symbols are not allowed in these C-Sets.
- Breakdown codes are allowed as subsequent symbols.
- The order of symbols in these C-Sets is relevant. B22F2999/00 is always used as base symbol, while subsequent symbols are arranged to represent subject matter(s) with increasing specificity.
- In these C-Sets, the subsequent symbols are not arranged in alphanumerical order.

C-Sets examples:

- #B22Fc: Aspect (B22F2999/00) concerning vacuum (B22F2201/20) applied during the step of filling mould with powder (B22F3/004) and the use of vibration (B22F2201/01) to equalise the powder distribution in the mould is classified as (B22F2999/00, B22F3/004, B22F2202/01, B22F2201/20) (ADD).
- #B22Fc: Aspects (B22F2999/00) concerning sweep gas system (B22F12/70) and driving means for a motion of said system along a direction within the plane of a layer (B22F12/224) during additive manufacturing is classified as (B22F2999/00, B22F12/70, B22F12/224) (ADD).

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2. A. DEFINITIONS (i.e. modified)

B22F

Special rules of classification

Replace: The existing text of the Special rules of classification section with the following new text.

Combination Sets (C-Sets):

In this subclass, C-Sets classification is applied to the following groups, listed in the table below, if the document discloses a pertinent combination of technical features that cannot be covered by the allocation of a single symbol. The fourth column of the table indicates the place where the detailed information about the C-Sets construction and the associated syntax rules can be found, in the definition section "Special rules of classification".

<u>C-Sets ID</u>	<u>Base Symbols</u>	<u>Subsequent Symbols</u>	<u>C-Sets Formula; Location of C-Sets Rules</u>
#B22Fa	B22F2998/00	B22F1/00 - B22F2207/20, C22C1/00 - C22C2204/00 (including breakdown indexing codes), other subclasses	(B22F, B22F); a process relating to powder metallurgy; see B22F2998/00
#B22Fb	B22F2998/10	B22F1/00 - B22F2207/20, C22C1/00 - C22C2204/00 (including breakdown indexing codes), other subclasses	(B22F, B22F); a process relating to powder metallurgy characterized by the sequence of the steps; see B22F2998/10

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#B22Fc	B22F2999/00	B22F1/00 - B22F2207/20, C22C1/00 - C22C2204/00 (including breakdown indexing codes), other subclasses	(B22F, B22F); a process relating to aspects linked to processes or compositions used in powder metallurgy; see B22F2999/00
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The specific C-Sets rule is located at only one place of the base symbol in the section "Special rules of classification" in the definition. If the C-Sets rule is applicable to all groups of a subclass, it is located at the subclass level only. If the same C-Sets rule is applicable to multiple groups or subgroups within the same subclass, the C-Sets rule is placed at the highest group or subgroup of the multiple groups.

Glossary of terms

Replace: The existing term "free metal" with the new phrase "metal in the oxidation state zero" so that the table row for "Alloy" reads as follows:

Alloy	a composition of plural elements at least one of which is a metal in the oxidation state zero. Also includes material containing any combination of fibres, filaments, whiskers and particles, e.g. carbides, diamond, oxides, borides, nitrides or sulfides, embedded in a metallic matrix.
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Synonyms and Keywords

Replace: The existing Synonyms and Keywords text with the following new text:

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

- "apparatus", "equipment" or "device"
- "residue", "waste", "remain", "scrap", "rejects" or "shred"
- "compacting" or "compressing"

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	B22F 3/00	B22F 3/00, B22F 10/00, B22F 10/10, B22F 10/12, B22F 10/14, B22F 10/16, B22F 10/18, B22F 10/20, B22F 10/22, B22F 10/25, B22F 10/28, B22F 10/30, B22F 10/31, B22F 10/32, B22F 10/322, B22F 10/34, B22F 10/36, B22F 10/362, B22F 10/364, B22F 10/366, B22F 10/368, B22F 10/37, B22F 10/38, B22F 10/385, B22F 10/39, B22F 10/40, B22F 10/43, B22F 10/47, B22F 10/50, B22F 10/60, B22F 10/62, B22F 10/64, B22F 10/66, B22F 10/68, B22F 10/70, B22F 10/73, B22F 10/77, B22F 10/80, B22F 10/85, B22F 12/00, B22F 12/10, B22F 12/13, B22F 12/17, B22F 12/20, B22F 12/22, B22F 12/222, B22F 12/224, B22F 12/226, B22F 12/30, B22F 12/33, B22F 12/37, B22F 12/38, B22F 12/40, B22F 12/41, B22F 12/42, B22F 12/43, B22F 12/44, B22F 12/45, B22F 12/46, B22F 12/47, B22F 12/48, B22F 12/49, B22F 12/50, B22F 12/52, B22F 12/53, B22F 12/55, B22F 12/57, B22F 12/58, B22F 12/60, B22F 12/63, B22F 12/67, B22F 12/70, B22F 12/80, B22F 12/82, B22F 12/84, B22F 12/86, B22F 12/88, B22F 12/90
C	B22F 10/10	B22F10/10, B22F10/12, B22F10/14, B22F10/16, B22F10/18
C	B22F10/20	B22F10/20, B22F10/22, B22F10/25, B22F10/28

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	B22F10/30	B22F10/30, B22F10/31, B22F10/32, B22F10/322, B22F10/34, B22F10/36, B22F10/362, B22F10/364, B22F10/366, B22F10/368, B22F10/37, B22F10/38, B22F10/385, B22F10/39, B22F10/80, B22F10/85
C	B22F10/40	B22F10/40, B22F10/43, B22F10/47
C	B22F 10/70	B22F10/68, B22F10/70, B22F10/73, B22F10/77
C	B22F 12/00	B22F 12/00, B22F 12/10, B22F 12/13, B22F 12/17, B22F 12/20, B22F 12/22, B22F 12/222, B22F 12/224, B22F 12/226, B22F 12/30, B22F 12/33, B22F 12/37, B22F 12/38, B22F 12/40, B22F 12/41, B22F 12/42, B22F 12/43, B22F 12/44, B22F 12/45, B22F 12/46, B22F 12/47, B22F 12/48, B22F 12/49, B22F 12/50, B22F 12/52, B22F 12/53, B22F 12/55, B22F 12/57, B22F 12/58, B22F 12/60, B22F 12/63, B22F 12/67, B22F 12/70, B22F 12/80, B22F 12/82, B22F 12/84, B22F 12/86, B22F 12/88, B22F 12/90

* 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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5. CROSS-REFERENCE LIST (CRL)

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>
B33Y	B22F10/20	Informative references	<p><u>Replace</u>: The existing table row text so that the row reads as follows.</p> <p style="text-align: center;">Direct sintering or melting B22F10/20</p>

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.