

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1690

DATE: JANUARY 1, 2025

PROJECT RP12464

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	F27D	17/001, 17/002, 17/003, 17/004, 2017/005, 2017/006, 2017/007, 17/008, 2017/009
Symbols New:	F27D	17/10, 17/102, 17/12, 17/13, 17/15, 17/17, 17/18, 17/20, 17/22, 17/25, 17/28, 17/30, 17/302, 17/304
Titles Changed:	F27D	17/00
	F27D	21/00, 21/04
Warnings New:	F27D	17/00, 17/10, 17/12, 17/15, 17/17, 17/18, 17/20, 17/22, 17/28
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	F27D	17/001, 17/003
Definitions New:	F27D	17/00, 17/30, 17/304

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): B22D, F23J, C21B, C21C

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 F27D - DETAILS OR ACCESSORIES OF FURNACES, KILNS, OVENS OR RETORTS, IN SO FAR AS THEY ARE OF KINDS OCCURRING IN MORE THAN ONE KIND OF FURNACE

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
C	F27D17/00	0	Arrangements for using waste heat; Arrangements for using, or disposing of, waste gases	F27D17/00, F27D17/20, F27D17/22, F27D17/25, F27D17/28
D	F27D17/001	1	{Extraction of waste gases, collection of fumes and hoods used therefor (in general B08B15/00)}	<administrative transfer to F27D17/30>
D	F27D17/002	2	{Details of the installations, e.g. fume conduits or seals}	<administrative transfer to F27D17/302>
D	F27D17/003	2	{of waste gases emanating from an electric arc furnace}	<administrative transfer to F27D17/304>
D	F27D17/004	1	{Systems for reclaiming waste heat}	<administrative transfer to F27D17/10>
D	F27D2017/005	2	{including pyrolysing the waste gases}	<administrative transfer to F27D17/102 INV>
D	F27D2017/006	2	{using a boiler}	<administrative transfer to F27D17/15 INV>
D	F27D2017/007	2	{including regenerators}	<administrative transfer to F27D17/13 INV>
D	F27D17/008	1	{cleaning gases}	<administrative transfer to F27D17/20>
D	F27D2017/009	1	{Cyclone for separating fines from gas}	<administrative transfer to F27D17/25 INV>
Q	F27D17/10	1	Arrangements for using waste heat	F27D17/10, F27D17/12, F27D17/15, F27D17/17, F27D17/18
N	F27D17/102	2	{including pyrolysing the waste gases}	

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N	F27D17/12	2	using heat storage	
N	F27D17/13	3	using regenerative heat exchangers	
N	F27D17/15	2	using boilers	
N	F27D17/17	2	for preheating fluids, e.g. air or gases	
N	F27D17/18	2	for preheating solid materials	
Q	F27D17/20	1	Arrangements for treatment or cleaning of waste gases	F27D17/20, F27D17/22, F27D17/25, F27D17/28
N	F27D17/22	2	for removing solid constituents	
N	F27D17/25	3	using cyclones	
N	F27D17/28	2	for cooling waste gases	
N	F27D17/30	1	Arrangements for extraction or collection of waste gases; Hoods therefor	
N	F27D17/302	2	{Constructional details of ancillary components, e.g. waste gas conduits or seals}	
N	F27D17/304	2	{specially adapted for electric arc furnaces}	
M	F27D21/00	0	Arrangement of monitoring devices; Arrangement of safety devices	
M	F27D21/04	1	Arrangement of indicators or alarms	

*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.

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- 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 F27D - DETAILS OR ACCESSORIES OF FURNACES, KILNS, OVENS, OR RETORTS, IN SO FAR AS THEY ARE OF KINDS OCCURRING IN MORE THAN ONE KIND OF FURNACE

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning</u>
N	F27D17/00		Group F27D 17/00 is impacted by reclassification into groups F27D 17/20, F27D 17/22, F27D 17/25 and F27D 17/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	F27D17/10		Group F27D 17/10 is impacted by reclassification into groups F27D 17/12, F27D 17/15, F27D 17/17 and F27D 17/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	F27D17/12		Group F27D 17/12 is incomplete pending reclassification of documents from group F27D 17/10. Groups F27D 17/10 and F27D 17/12 should be considered in order to perform a complete search.
N	F27D17/15		Group F27D 17/15 is incomplete pending reclassification of documents from group F27D 17/10. Groups F27D 17/10 and F27D 17/15 should be considered in order to perform a complete search.
N	F27D17/17		Group F27D 17/17 is incomplete pending reclassification of documents from group F27D 17/10. Groups F27D 17/10 and F27D 17/17 should be considered in order to perform a complete search.
N	F27D17/18		Group F27D 17/18 is incomplete pending reclassification of documents from group F27D 17/10. Groups F27D 17/10 and F27D 17/18 should be considered in order to perform a complete search.

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N	F27D17/20		Group F27D 17/20 is incomplete pending reclassification of documents from group F27D 17/00. Group F27D 17/20 is also impacted by reclassification into groups F27D 17/22, F27D 17/25 and F27D 17/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	F27D17/22		Groups F27D 17/22 and F27D 17/25 are incomplete pending reclassification of documents from groups F27D 17/00 and F27D 17/20. All groups listed in this warning should be considered in order to perform a complete search.
N	F27D17/28		Group F27D 17/28 is incomplete pending reclassification of documents from groups F27D 17/00 and F27D 17/20. Groups F27D 17/00, F27D 17/20 and F27D 17/28 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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2. A. DEFINITIONS (new)

F27D 17/00

References

Informative references

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

Removing fumes in general	B08B 15/00
Heat-exchangers, per se	F28

F27D 17/30

References

Informative references

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

Removing fumes in general	B08B15/00
Removal of waste gases or dust coming from steel making converters	C21C5/38

F27D17/304

References

Informative references

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

Working up flue dust	C22B7/02
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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
F27D17/001			Delete entire Definition
F27D17/003			Delete entire Definition

Notes:

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

Reminder: Never delete F symbol definitions.

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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	F27D17/00	F27D17/00, F27D17/20, F27D17/22, F27D17/25, F27D17/28
D	F27D17/001	<administrative transfer to F27D17/30>
D	F27D17/002	<administrative transfer to F27D17/302>
D	F27D17/003	<administrative transfer to F27D17/304>
D	F27D17/004	<administrative transfer to F27D17/10>
D	F27D2017/005	<administrative transfer to F27D17/102 INV>
D	F27D2017/006	<administrative transfer to F27D17/15 INV>
D	F27D2017/007	<administrative transfer to F27D17/13 INV>
D	F27D17/008	<administrative transfer to F27D17/20>
D	F27D2017/009	<administrative transfer to F27D17/25 INV>
Q	F27D17/10	F27D17/10, F27D17/12, F27D17/15, F27D17/17, F27D17/18
Q	F27D17/20	F27D17/20, F27D17/22, F27D17/25, F27D17/28

* 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.

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- 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 finalization projects.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F27D 17/001		DELETE
F27D 17/002		DELETE
F27D 17/003		DELETE
F27D 17/004		DELETE
F27D 2017/005		DELETE
F27D 2017/006		DELETE
F27D 2017/007		DELETE
F27D 17/008		DELETE
F27D 2017/009		DELETE
F27D 17/10	F27D 17/10	NEW
F27D 17/102	F27D 17/10	NEW
F27D 17/12	F27D 17/12	NEW
F27D 17/13	F27D 17/13	NEW
F27D 17/15	F27D 17/15	NEW
F27D 17/17	F27D 17/17	NEW
F27D 17/18	F27D 17/18	NEW
F27D 17/20	F27D 17/20	NEW
F27D 17/22	F27D 17/22	NEW
F27D 17/25	F27D 17/25	NEW
F27D 17/28	F27D 17/28	NEW
F27D 17/30	F27D 17/30	NEW
F27D 17/302	F27D 17/30	NEW
F27D 17/304	F27D 17/30	NEW

*Action column:

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

NOTES:

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

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5. CROSS-REFERENCELIST (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>
B22D 45/005	F27D 17/001	<u>Replace</u> with: F27D 17/30
F23J 11/00	F27D 17/002	<u>Replace</u> with: F27D 17/302

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>
F23J	F27D 17/002	Informative references	<u>Replace</u> with: F27D 17/302
F23J 11/00	F27D 17/002	Limiting references	<u>Replace</u> with: F27D 17/302
B22D 45/00	F27D 17/00	Informative references	<u>Replace</u> with: F27D17/30
C21B 7/24	F27D21/00-F27D21/04	Informative references	<u>Replace</u> existing text with: Arrangement of monitoring devices in furnaces, kilns, ovens or retorts <u>Delete</u> reference symbol range and <u>keep</u> main group only: F27D21/00

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
C21C 5/46	F27D21/00-F27D21/04	Informative references	<p><u>Replace</u> existing text with:</p> <p>Arrangement of monitoring devices in furnaces, kilns, ovens or retorts</p> <p><u>Delete</u> reference symbol range and <u>keep</u> main group only:</p> <p>F27D21/00</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.