EUROPEAN PATENT OFFICE U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1694

DATE: JANUARY 1, 2025

PROJECT MP12331

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

Action	<u>Subclass</u>	Group(s)
SCHEME:		
Titles Changed:	F27D	SUBCLASS
	F27D	1/00, 1/0033, 1/12, 1/14, 1/16, 1/18
	F27D	3/00,2003/0002,3/026,3/16
	F27D	5/00,5/0031,5/0062
	F27D	7/00,7/02,7/06
	F27D	9/00
	F27D	11/00,11/10
	F27D	13/002
	F27D	15/0286
	F27D	25/001
	F27D	27/00
	F27D	99/0033
	1270	7770033
Warnings Deleted:	F27D	SUBCLASS
DEFINITIONS:		
Definitions New:	F27D	1/12
	F27D	15/0286
Definitions Modified:	F27D	SUBCLASS
	F27D	1/00, 1/0033, 2001/0046, 2001/0066, 2001/0069, 2001/0079, 2001/0083, 2001/1875
	F27D	3/00, 3/16
	F27D	5/00,5/0031,5/0062
	F27D	7/00
	F27D	11/00,11/10
	F27D	13/002
	F27D	25/001
	F27D	27/00
	F27D	99/0033

No other subclasses/groups are impacted by this Notice of Changes.

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

1. CLASSIFICATION SCHEME CHANGES

- \land A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)

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- 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. <u>New, Modified or Deleted Group(s)</u>

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

Number of dots (cg.0.1.2)"CPC only" text should normally be enclosed in (curly brackets)**MF27DSubclassDETAILS OR ACCESSORES OF FURNACES, KILNS, OVENS OR RETORTS, INSOFAR AS THEY ARE OF KINDS OCCURRING INMOREMF27D 1/000Casings; Linings; Walls; RoofsMF27D 1/00332{Linings or walls comprising heat shields, e.g. heat shields}MF27D 1/121incorporating cooling arrangementsMF27D 1/141Supports for linings (supports for monolithic linings F27D 1/10)MF27D 1/161Making or repairing linings {: Increasing the dura bility of linings; Breaking away linings}}MF27D 1/181Door frames; Doors, lids or removable coversMF27D 2003/00022{involving positioning devices, e.g. buffers, buffer zones}MF27D 3/000Charging; Discharging; Manipulation of chargeMF27D 3/0262{transport or conveyorolls for furmaces; roller rails}MF27D 5/000Supports, screens or the like for the charge (F27D 3/18 takes precedence)MF27D 5/00311{Treatment baskets for ceramic articles}MF27D 5/00621(Shields for the charge)MF27D 7/021Supports, screens or the like for the charge within the fumaceMF27D 5/00621Forming, maintaining or circulating atmospheres in heating chambersMF27D 7/021Supplying steam, vapour, gases or liquids	Type*	<u>Symbol</u>	Indent Level	Title	Transferred to [#]
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incorporating cooling a rrangements					
F27D 1/12)					

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М	F27D11/00	0	Arrangement of elements for electric heating in or on furnaces	
М	F27D11/10	2	Disposition of electrodes	
М	F27D13/002	1	{Preheating scrap}	
М	F27D15/0286	2	{in a vertical, e.g. annular, shaft}	
U	F27D19/00	0	Arrangements of controlling devices	
М	F27D25/001	1	{comprising breaking tools, e.g. hammers, drills, scrapers}	
М	F27D27/00	0	Stirring devices for molten material (charging or discharging liquid or molten material F27D 3/14)	
М	F27D99/0033	2	{using burners}	

*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 <u>subclasses</u>, 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} <u>are</u> 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 <u>must</u> 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. <u>New, Modified or Deleted Warning notice(s)</u>

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>	Old Warning notice	<u>New/Modified Warning</u>
D	F27D	In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.	

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 1/12

References

Informative references

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

Assemblies of tubular heat-exchange elements in general F28F 1/00

F27D 15/0286

References

Informative references

Cooling discharged material on a rotary hearth	F27D 15/0273
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2. A. DEFINITIONS (modified)

F27D

<u>Replace</u>: The existing Definition statement text with the following updated text.

Definition statement

This place covers:

Details, accessories of furnaces, kilns or ovens in general, not for specific furnaces, kilns or ovens.

Replace: The existing Relationships text with the following updated text.

Relationships with other classification places

The details or accessories for specific furnaces, kilns or ovens are classified in F27B subgroups

References

Insert: The following new Informative references section.

Informative references

Combustion apparatus	F23
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<u>Replace</u>: The existing Special rules text with the following updated text.

Special rules of classification

Indexing Codes should be used as additional information or in case a CPC symbol is given and more detailed Indexing Codes are existing, these more detailed Indexing Codes should also be given.

F27D 1/00

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

Linings for casting-melt holding vessels	B22D 41/02
Refractory materials	C04B
Clay-wares	C04B 33/00
Shaped ceramic products characterised by their composition	C04B 35/00
Walls, e.g. partitions, for buildings	E04B 2/00
Protection of pipes or pipe fittings against corrosion or incrustation	F16L 58/00
Thermal insulation in general	F16L 59/00
Firebridges for combustion chambers	F23M 3/00
Shape of bricks or blocks used in combustion chambers	F23M 5/02

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F27D 1/0033

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Shields protecting the charge within the furnace	F27D 5/0062

F27D 2001/0046

<u>Delete</u>: The entire Informative references section.

Insert: The following new Special rules section.

Special rules of classification

Making or repairing linings, increasing the durability of linings or breaking away linings are classified in F27D 1/16.

F27D 2001/0066

<u>Delete</u>: The entire Informative references section.

Insert: The following new Special rules section.

Special rules of classification

Removable part or structure with replaceable elements because of wearing is classified in F27D 2001/005.

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F27D 2001/0069

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Linings or walls comprising heat shields, e.g. heat shields F27D 1/0033

F27D 2001/0079

<u>Delete</u>: The entire Informative references section.

Insert: The following new Special rules section.

Special rules of classification

Assembling elements for supports for linings are classified in F27D 1/145.

F27D 2001/0083

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

Linings or walls comprising expansion joints or means to restrain expansion due to thermic flows	F27D 1/0023
Removable covers	F27D 1/1808
Movement of the container or support of the charge in the	F27D 2003/0085
furnace or in the charging facilities	

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F27D 2001/1875

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Partitions	F27D 99/007

F27D 3/00

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

Conveyors in general	B65G
Charging of the electric steel-manufacturing furnace	C21C 5/527
Furnaces through which the charge is moved mechanically or in which the charge moves by gravity	F27B 9/00
Path of the charge through the furnace during treatment; Means by which the charge is moved through the furnace during treatment	F27B 9/14

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F27D 3/16

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

-		
	Charging particulate material using a fluid carrier	F27D 3/18

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Injection assemblies for treating melt in ladles or runners before casting	B22D 1/005
Devices for accelerating or decelerating flow of the materials	B65G 53/58
Tuyeres for blast furnaces	C21B 7/16
Bottoms or tuyeres for converters	C21C 5/48
Burners or injectors for injecting pulverulent materials into the	C21C 5/5217
furnace	
Treating molten ferrous alloy by injecting powdered material	C21C 7/0037

F27D 5/00

References

<u>Replace</u>: The existing Informative references table with the following updated table.

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Travelling or movable supports	F27D 3/12
Setting, e.g. drying, dehydrating or firing ceramic articles	B28B 11/243
Supports, baskets, containers or covers for heat treatment of metal articles	C21D 9/0025
Details of grates for burning waste materials	F23H 17/00
Elements for supporting goods to be dried	F26B 25/185

F27D 5/0031

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Heat treatment baskets for metallic articles	C21D 9/0025
	0210 0/0020

F27D 5/0062

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Heat shields for linings F27D 1/0033

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F27D 7/00

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

General devices for heat treatment with forced gas circulation	C21D 1/767
General devices for heat treatment under reduced pressure or vacuum	C21D 1/773

F27D 11/00

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

Electric heating, per se	H05B
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F27D 11/10

References

<u>Replace</u>: The existing Informative references table with the following updated table.

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Informative references

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

Automatic control of temperature	G05D 23/00
Electric discharge apparatus	H01T
Arrangements for feeding or guiding electrodes	H05B 7/10
Automatic control of power by positioning of electrodes	H05B 7/144

F27D 13/002

References

Insert: The following new Application-oriented references section.

Application-oriented references

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

Preheating of scrap for steel production	C21C 5/565
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<u>Delete</u>: The entire Informative references section.

F27D 25/001

<u>Replace</u>: The existing Definition statement text with the following updated text.

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Definition statement

This place covers:

Devices for removing incrustations, e.g. slag, metal deposits, dust, comprising breaking tools like hammers, drills, scrapers.

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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

	F27D 1/1694
Breaking away linings	
	F27D 3/1527
Boring machines for forming tapholes	

F27D 27/00

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Charging or discharging liquid or molten material	F27D 3/14

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

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Mixers in general	B01F 25/00 - B01F 33/00
General processes of refining of metals	C22B 9/00
Obtaining aluminium by refining	C22B 21/06
Electrodynamic pumps	H02K 44/02

F27D 99/0033

References

<u>Replace</u>: The existing Informative references table with the following updated table.

Informative references

Melting glass by combustion with oxygen	C03B 5/2353
Manufacture of steel in electric arc furnaces equipped with burners	C21C 5/5217
Burners in general for combustion of gas	F23D 14/00
Burners in general for combustion conjointly or alternatively of	F23D 17/00
gaseous or liquid or pulverulent fuel	