

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1693

DATE: JANUARY 1, 2025

PROJECT MP12343

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	F27B	SUBCLASS
	F27B	1/00, 1/10, 1/14, 1/22
	F27B	3/00, 3/10
	F27B	5/00, 5/06
	F27B	7/20
	F27B	9/00, 9/14, 9/20, 9/24, 9/30
	F27B	11/00
	F27B	13/00, 13/06
	F27B	14/08
	F27B	15/00, 15/02
	F27B	17/00, 17/0025
	F27B	19/00
Warnings Modified:	F27B	SUBCLASS
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)		
Definitions New:	F27B	9/20
Definitions Modified:	F27B	SUBCLASS
	F27B	1/00, 1/14, 1/16, 1/20, 1/21, 1/22, 1/24
	F27B	3/00, 3/04, 3/18, 3/20, 3/22
	F27B	5/00, 5/04, 5/12, 5/13, 5/14, 5/16, 5/18
	F27B	7/00, 7/06
	F27B	9/00, 9/04, 9/06, 9/14, 9/24, 9/36, 9/38, 9/39, 9/40
	F27B	11/00
	F27B	15/00
	F27B	17/00

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

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

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- 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)

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- 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 F27B - FURNACES, KILNS, OVENS OR RETORTS IN GENERAL; OPEN SINTERING OR LIKE APPARATUS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F27B	Subclass	FURNACES, KILNS, OVENS OR RETORTS IN GENERAL; OPEN SINTERING OR LIKE APPARATUS	
M	F27B 1/00	0	Shaft or like vertical or substantially vertical furnaces	
M	F27B 1/10	1	Details, accessories or equipment specially adapted for furnaces of these types	
M	F27B 1/14	3	Arrangements of linings	
M	F27B 1/22	2	Arrangements of heat-exchange apparatus	
M	F27B 3/00	0	Hearth-type furnaces, e.g. of reverberatory type (F27B 9/00, F27B 11/00, F27B 13/00, F27B 14/00, F27B 15/00, F27B 21/00 take precedence); Electric arc furnaces {; Tank furnaces}	
M	F27B 3/10	1	Details, accessories or equipment, e.g. dust-collectors, specially adapted for hearth-type furnaces	
M	F27B 5/00	0	Muffle furnaces; Retort furnaces; Other furnaces in which the charge is held completely isolated (furnaces through which the charge is moved mechanically or in which the charge moves by gravity F27B 9/00)	
M	F27B 5/06	1	Details, accessories or equipment specially adapted for furnaces of these types	
M	F27B 7/20	1	Details, accessories or equipment specially adapted for rotary-drum furnaces	
M	F27B 9/00	0	Furnaces through which the charge is moved mechanically, e.g. of tunnel type (rotary-drum furnaces with means for agitating or moving the charge F27B 7/14); Similar furnaces in which the charge moves by gravity	
M	F27B 9/14	1	characterised by the path of the charge during treatment; characterised by the means by which the charge is moved during treatment (for treating continuous lengths of work F27B 9/28)	
M	F27B 9/20	2	the charge moving in a substantially straight path	

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M	F27B 9/24	3	being carried by a conveyor	
M	F27B 9/30	1	Details, accessories or equipment specially adapted for furnaces of these types	
M	F27B 11/00	0	Bell-type furnaces	
M	F27B 13/00	0	Furnaces with both stationary charge and progression of heating, e.g. of ring type or of the type in which a segmental kiln moves over a stationary charge	
M	F27B 13/06	1	Details, accessories or equipment specially adapted for furnaces of this type	
M	F27B 14/08	1	Details specially adapted for crucible or pot furnaces	
M	F27B 15/00	0	Fluidised-bed furnaces; Other furnaces using or treating finely-divided materials in dispersion	
M	F27B 15/02	1	Details, accessories or equipment specially adapted for furnaces of these types	
M	F27B 17/00	0	Furnaces of a kind not covered by any of groups F27B 1/00 - F27B 15/00 (structural combinations of furnaces F27B 19/02)	
M	F27B 17/0025	2	{ specially adapted for treating semiconductor wafers }	
M	F27B 19/00	0	Combinations of different kinds of furnaces that are not all covered by any single one of main groups F27B 1/00 - F27B 17/00	

*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>.

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- 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 F27B - FURNACES, KILNS, OVENS OR RETORTS IN GENERAL; OPEN SINTERING OR LIKE APPARATUS

Type*	Location	Old Warning notice	New/Modified Warning
M	F27B	<p>1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: F27B1/09 covered by F27B 1/08 F27B5/05 covered by F27B 5/04 F27B14/16, F27B14/18 covered by F27B 14/0806 F27B21/08 - F27B21/14 covered by F27D 3/00, F27D 21/00</p> <p>2. 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.</p>	<p>1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: F27B 1/09 covered by F27B 1/08 F27B 5/05 covered by F27B 5/04 F27B 14/16, F27B 14/18 covered by F27B 14/0806 F27B 21/08 - F27B 21/14 covered by F27D 3/00, F27D 21/00</p>

*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.

2. A. DEFINITIONS (new)

Insert: The following new Definitions.

F27B 9/20

Definition statement

This place covers:

Furnaces through which the charge is moved mechanically, e.g. tunnel furnaces.

2. A. DEFINITIONS (modified)

F27B

Delete: The entire Definition statement.

References

Delete: The entire Limiting references section.

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:

Bakers' ovens; Machines or equipment for baking	A21B
Furnaces specially adapted for glass manufacture	C03B 5/00
Retorts	C10B 1/00
Coke ovens with vertical chambers	C10B 3/00
Coke ovens with horizontal chambers	C10B 5/00
Coke ovens with mechanical conveying means for the raw material inside the oven	C10B 7/00
Beehive ovens	C10B 9/00
Coke ovens with inclined chambers	C10B 11/00
Coke ovens with means for bringing and keeping the charge under mechanical pressure	C10B 13/00
Other coke ovens	C10B 15/00
Furnaces, kilns, ovens or retorts specially adapted for cracking hydrocarbons	C10G
Furnaces, kilns, ovens or retorts for production of gases containing carbon monoxide and hydrogen from solid carbonaceous materials by partial oxidation processes involving oxygen or steam	C10J
Blast furnaces	C21B 7/00
Stoves for heating the blast in blast furnaces	C21B 9/00
Manufacture of steel in converters	C21C 5/28
General devices for heat treatment of ferrous or non-ferrous metals or alloys	C21D
Furnaces for electroslag or arc remelting of metals	C22B 9/00

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Apparatus or furnaces for melting or fritting enamels	C23D 1/00
Ovens specially adapted for firing enamels	C23D 9/00

Replace: The existing Informative references table with the following updated table.

Informative references

Combustion apparatus	F23
Heat-exchangers	F28D
Electric heating	H05B

Delete: The entire Special rules section.

F27B 1/00

References

Delete: The entire Limiting references section.

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, burning, calcining or cooling lime, magnesia or dolomite in shaft or vertical furnaces	C04B 2/12
Making pig-iron in blast furnaces	C21B 5/00
Blast furnaces	C21B 7/00
Shaft furnaces for making pig-iron	C21B 11/02

Delete: The entire Informative references section.

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F27B 1/14

References

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

Informative references

Linings for furnaces, kilns, ovens or retorts in general	F27D 1/00
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F27B 1/16

References

Delete: The entire Limiting references section.

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:

Tuyères for blast furnaces	C21B 7/16
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F27B 1/20

References

Delete: The entire Limiting references section.

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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:

Bell-and-hopper arrangements for blast furnaces	C21B 7/18
---	-----------

Replace: The existing Informative references table with the following updated table.

Informative references

Devices for charging furnaces	F27D 3/00
-------------------------------	-----------

F27B 1/21

References

Delete: The entire Limiting references section.

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:

Devices for discharging from blast furnaces	C21B 7/14
---	-----------

Replace: The existing Informative references table with the following updated table.

Informative references

Devices for discharging from furnaces	F27D 3/00
---------------------------------------	-----------

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F27B 1/22

References

Replace: The existing Informative references table with the following updated table.

Informative references

Heat-exchangers in general	F28C, F28D
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F27B 1/24

References

Delete: The entire Limiting references section.

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:

Cooling devices for blast furnaces	C21B 7/10
------------------------------------	-----------

Informative references

Delete: The words “in details” from the end of the text row in the Informative references table, so that the updated table appears as follows:

Cooling of furnaces or of charges therein	F27D 9/00
---	-----------

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F27B 3/00**References**

Replace: The existing Limiting references table with the following updated table.

Limiting references

Furnaces through which the charge is moved mechanically, e.g. of tunnel type; Similar furnaces in which the charge moves by gravity	F27B 9/00
Bell-type furnaces	F27B 11/00
Furnaces with both stationary charge and progression of heating	F27B 13/00
Crucible or pot furnaces	F27B 14/00
Fluidised-bed furnaces; Other furnaces using or treating finely-divided materials in dispersion	F27B 15/00
Open or uncovered sintering apparatus; Other heat-treatment apparatus of like construction	F27B 21/00

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:

Converters used in making steel	C21C 5/28
Manufacturing of steel in electric furnaces	C21C 5/52
Furnaces for general processes of refining metals	C22B 9/00

F27B 3/04**References**

Delete: The entire Limiting references section.

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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:

Manufacture of steel in electrically heated multi-chamber furnace, a combination of electric furnaces or an electric furnace arranged for associated working with a non-electric furnace	C21C 5/5252
--	-------------

F27B 3/18

References

Delete: The entire Limiting references section.

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:

Charging of electric furnaces used in the manufacture of steel	C21C 5/527
--	------------

Replace: In the text row in the Informative references table, “in details” with “furnaces”, so that the updated table appears as follows:

Informative references

Devices for charging furnaces	F27D 3/00
-------------------------------	-----------

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F27B 3/20

References

Delete: The entire Limiting references section.

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:

Burners in electric arc furnaces used in the manufacture of steel	C21C 5/5217
---	-----------------------------

Replace: The text in the second row of the Informative references table with the following updated text.

Informative references

Heating elements or systems for furnaces, kilns, ovens or retorts	F27D 99/0001
---	------------------------------

F27B 3/22

References

Delete: The entire Limiting references section.

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:

Lances or injectors for converters used in the manufacture of steel	C21C 5/4606
---	-----------------------------

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Injectors for electric arc furnaces used in the manufacture of steel	C21C 5/5217
--	-------------

F27B 5/00

References

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

Limiting references

Furnaces through which the charge is moved mechanically or in which the charge moves by gravity	F27B 9/00
---	-----------

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:

Muffle or retort furnaces for heat treatment of particular metallic articles, e.g. annealing, hardening, quenching or tempering	C21D 9/0043
---	-------------

F27B 5/04

References

Delete: The entire Limiting references section.

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:

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Furnaces for heat treatment of ferrous or non-ferrous metals or alloys	C21D 9/00
--	-----------

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

Informative references

Methods of heat treatment of ferrous or non-ferrous metals or alloys in inert gas, controlled atmosphere, vacuum or pulverulent material	C21D 1/74
--	-----------

F27B 5/12

References

Delete: The entire Limiting references section.

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:

Charging particular metallic articles in heat-treatment furnaces	C21D 9/0018
--	-------------

Replace: The text in the Informative references table with the following updated text.

Informative references

Devices for charging furnaces	F27D 3/00
-------------------------------	-----------

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F27B 5/13

References

Delete: The entire Limiting references section.

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:

Discharging particular metallic articles from heat-treatment furnaces	C21D 9/0018
---	-----------------------------

Replace: The text in the Informative references table with the following updated text:

Informative references

Devices for discharging from furnaces	F27D 3/00
---------------------------------------	---------------------------

F27B 5/14

References

Delete: The entire Limiting references section.

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

Informative references

Methods of heating during heat treatment of ferrous or non-ferrous metals or alloys	C21D 1/34
Arrangement of elements for electric heating in or on furnaces	F27D 11/00
Heating elements or systems for furnaces, kilns, ovens or retorts	F27D 99/0001

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F27B 5/16

References

Delete: The entire Limiting references section.

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

Informative references

Methods of heat treatment of ferrous or non-ferrous metals or alloys in inert gas, controlled atmosphere, vacuum or pulverulent material	C21D 1/74
--	---------------------------

F27B 5/18

References

Delete: The entire Limiting references section.

Replace: The existing Informative references table with the following updated table.

Informative references

Process control or regulation for heat treatments of ferrous or non-ferrous metals or alloys	C21D 11/00
Arrangement of controlling devices for furnaces	F27D 19/00
Arrangement of monitoring devices for furnaces	F27D 21/00

F27B 7/00

References

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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:

Rotary retorts	C10B 1/10
Destructive distillation of solid carbonaceous material with indirect heating in rotary ovens or retorts	C10B 47/30
Making pig-iron in rotary kilns	C21B 11/06
Making spongy iron or liquid steel, by direct processes in rotary furnaces	C21B 13/08
Rotary furnaces with horizontal or slightly inclined axis for heat treatment of ferrous or non-ferrous metals or alloys	C21D 9/0031

Replace: The existing Informative references table with the following updated table.

Informative references

Burning or melting of hydraulic cements	C04B 7/44
Incineration of waste in rotating drums	F23G 5/20

F27B 7/06

References

Delete: The entire Limiting references section.

Replace: The existing Informative references table with the following updated table.

Informative references

Methods of heat treatment of ferrous or non-ferrous metals or alloys in inert gas, controlled atmosphere, vacuum or pulverulent material	C21D 1/74
Forming or maintaining special atmospheres or vacuum within heating chambers	F27D 7/06

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F27B 9/00

Delete: The entire Definition statement.

Delete: The following row from the Limiting references table.

References

Limiting references

Furnaces for heat treatment	C21D 9/00
-----------------------------	-----------

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:

Furnaces for heat treatment of ferrous or non-ferrous metals or alloys	C21D 9/00
--	-----------

F27B 9/04

References

Delete: The entire Limiting references section.

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:

Continuous furnaces for heat treating metal strip or wire with a controlled atmosphere or vacuum	C21D 9/561
--	------------

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Replace: The existing Informative references table with the following updated table.

Informative references

Method of heat treatment of ferrous or non-ferrous metals or alloys in inert gas, controlled atmosphere, vacuum or pulverulent material	C21D 1/74
Forming or maintaining special atmospheres or vacuum within heating chambers	F27D 7/06

F27B 9/06

References

Delete: The entire Limiting references section.

Replace: The existing Informative references table with the following updated table.

Informative references

Method of heating during heat treatment of ferrous or non-ferrous metals or alloys	C21D 1/34
Arrangement of elements for electric heating in or on furnaces	F27D 11/00
Heating elements or systems for furnaces, kilns, ovens or retorts	F27D 99/0001

F27B 9/14

References

Replace: The existing Limiting references table with the following updated table.

Limiting references

Furnaces for treating continuous lengths of work	F27B 9/28
--	-----------

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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:

Furnaces in which the charge is moving up or down	C21D 9/005
Furnaces for heat treatment through which the charge is moved in a horizontal straight path	C21D 9/0056

Replace: The existing Informative references table with the following updated table.

Informative references

Travelling or movable supports or containers for the charge	F27D 3/12
Furnace cars	F27D 3/123

F27B 9/24

References

Delete: The entire Limiting references section.

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:

Rolls in heat-treating furnaces	C21D 9/0012
Rolls in continuous heat-treating furnaces	C21D 9/563

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Delete: The slash and numbers at the end of the symbol in the Informative references table so that the new symbol appears as follows:

Informative references

Transport by conveyors in general	B65G
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F27B 9/36

References

Delete: The entire Limiting references section.

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:

Continuous furnaces for heat treating metal strip or wire	C21D 9/56
---	-----------

Replace: The existing Informative references table with the following updated table.

Informative references

Heating elements or system for furnaces, kilns, ovens or retorts	F27D 99/0001
--	--------------

F27B 9/38

References

Delete: The entire Limiting references section.

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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:

Charging particular metallic articles in heat-treatment furnaces	C21D 9/0018
--	-------------

Replace: The existing Informative references table with the following updated table.

Informative references

Devices for charging furnaces	F27D 3/00
-------------------------------	-----------

F27B 9/39

References

Delete: The entire Limiting references section.

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:

Discharging particular metallic articles from heat-treatment furnaces	C21D 9/0018
---	-------------

Replace: The existing Informative references table with the following updated table.

Informative references

Devices for discharging from furnaces	F27D 3/00
---------------------------------------	-----------

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F27B 9/40

References

Delete: The entire Limiting references section.

Replace: The existing Informative references table with the following updated table.

Informative references

Process control or regulation for heat treatments of ferrous or non-ferrous metals or alloys	C21D 11/00
Arrangement of controlling devices for furnaces	F27D 19/00
Arrangement of monitoring devices for furnaces	F27D 21/00

F27B 11/00

References

Delete: The entire Limiting references section.

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:

Bell-type furnaces for treating metal strips or wire	C21D 9/663
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F27B 15/00

Delete: The entire Definition statement.

References

Delete: The entire Limiting references section.

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:

Making spongy iron or liquid steel, by direct processes in fluidised bed furnaces or apparatus containing a dispersion of the material	C21B 13/0033
Heating metallic strips in fluidised beds	C21D 9/567

Replace: The existing Informative references table with the following updated table.

Informative references

General apparatuses for carrying out chemical or physical processes in a fluidised-bed reactor	B01J 8/24
Combustion apparatus in which combustion takes place in a fluidised bed of fuel or other particles	F23C 10/00
Heat-exchange apparatus using fluidised bed	F28D 13/00

F27B 17/00

Replace: The existing Definition statement with the following updated text.

Definition statement

Types of furnaces not covered by any preceding group:

- open field furnaces for burning bricks;
- chamber type furnaces, e.g. specially adapted for treating semiconductor wafers or specially adapted for burning bricks or pottery;
- chamber type furnaces, where the floor consists of a support carrying the charge, e.g. car type furnaces;
- furnaces specially designed for laboratory use.

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References

Replace: The existing Limiting references table with the following updated table.

Limiting references

Structural combinations of furnaces	F27B 19/02
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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:

Furnace coilers; Hot coilers	C21D 9/68
Furnace for ingots	C21D 9/70

Replace: The second row in the Informative references table with the following updated text.

Informative references

Apparatuses for treating semiconductors or wafers	H01L 21/67
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