

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1375

DATE: JANUARY 1, 2023

PROJECT RP11755

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:	C04B	14/405
Symbols New:	C04B	18/0475
Titles Changed:	C04B	18/023, 18/027, 18/04, 18/14, 18/16, 18/162, 18/165, 18/167, 18/20
DEFINITIONS:		
Definitions Modified:	C04B	18/02, 18/021, 18/022, 18/023, 18/027, 18/04, 18/06, 18/08, 18/10, 18/14, 18/16, 18/162, 18/18, 18/20, 18/243, 18/245, 18/248

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): C04B33/1325

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 C04B - LIME, MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE {(roofing granules E04D 7/005)}; CERAMICS (devitrified glass-ceramics C03C 10/00); REFRACTORIES; TREATMENT OF NATURAL STONE

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
D	C04B 14/405	3	{Waste asbestos}	< administrative transfer to C04B 18/0475>
M	C04B 18/023	2	{Fired or melted materials }	
M	C04B 18/027	2	{Lightweight materials }	
M	C04B 18/04	1	Waste materials; Refuse	
U	C04B 18/0472	3	{Waste material contaminated by heavy metals }	
N	C04B 18/0475	2	{Waste asbestos}	
M	C04B 18/14	2	from metallurgical processes (treatment of molten slag C04B 5/00)	
M	C04B 18/16	2	from building or ceramic industry	
M	C04B 18/162	3	Cement kiln dust; Lime kiln dust	
M	C04B 18/165	3	Ceramic waste	
M	C04B 18/167	3	Recycled materials, i.e. waste materials reused in the production of the same materials	
M	C04B 18/20	3	from macromolecular compounds	

*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.

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- 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.

2. A. DEFINITIONS (modified)

C04B 18/02

References

Delete: The entire Limiting references section.

Replace: 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:

Temporary compacting of cement	C04B7/36
Temporary compacting of gypsum	C04B11/268
Conditioning silica fume	C04B18/147

Replace: The existing Glossary of terms table with the following updated table.

Glossary of terms

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

Artificial aggregates, synthetic aggregates	Aggregates which are not "natural" in the way that crushed rocks or sands and gravels are. These are implied to be human-made materials, whether they are by-products of some other industry or even if they are deliberately manufactured.
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C04B 18/021**References**

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Lightweight agglomerated materials, e.g. artificial aggregates	C04B 18/027
Waste materials or refuse from building or ceramic industry	C04B 18/16

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

Special rules of classification

For agglomerated materials (artificial aggregates or fillers) which are classified in [C04B 18/021](#) or other equivalent subgroups of [C04B 18/00](#), the starting materials, other than the binder, can be identified in the C-set with Indexing Symbols. Symbols are chosen from [C04B 14/00](#), [C04B 16/00](#), [C04B 18/00](#) and less often from [C04B 22/00](#) or [C04B 24/00](#).

C04B 18/022**References**

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Lightweight agglomerated materials, e.g. artificial aggregates	C04B 18/027
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Replace: The existing Special rules of classification text with the following updated text.

Special rules of classification

See the special rules under [C04B 18/021](#).

C04B 18/023

References

Delete: The entire Limiting references section.

Insert: The following two new references in the Informative references table.

Informative references

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

Porous fired material	C04B 18/027
Expanding clay, perlite, vermiculite or like granular materials, which are (a) used as fillers for mortars, concrete or artificial stone, (b) specially adapted to enhance their filling properties in mortars, concrete or artificial stone, or (c) expanding or defibrillating materials	C04B 20/06

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

Special rules of classification

See the special rules under [C04B 18/021](#).

A lightweight material ([C04B18/027](#)) which is fired or melted ([C04B18/023](#)) is classified as ([C04B18/027](#), [C04B18/023](#)).

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C04B 18/027

Definition statement

This place covers:

Insert: A period at the end of the Definition statement.

References

Delete: The entire Limiting references section.

Replace: 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:

Expanded clay	C04B 14/12
Porous glass	C04B 14/24
Expanding clay, perlite, vermiculite or like granular materials, which are (a) used as fillers for mortars, concrete or artificial stone, (b) specially adapted to enhance their filling properties in mortars, concrete or artificial stone, or (c) used as expanding or defibrillating materials	C04B 20/06
Porous or hollow ceramic granular material for porous mortars, concrete, artificial stone or ceramic ware; Preparation thereof	C04B 38/009

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

Special rules of classification

For crushed porous concrete aggregate, one set of symbols is used with C04B 18/027 or C04B 38/00 and an alternative classification in C04B 18/16.

A lightweight material (C04B18/027) which is fired or melted (C04B18/023) is classified as (C04B18/027, C04B18/023).

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C04B 18/04

Definition statement

This place covers:

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

Waste materials or refuse, e.g. from industrial or other processes or Si-Stoff, or a waste from alumina production. This place also covers mixtures of wastes.

References

Delete: The entire Limiting references section.

Insert: The following five new references in the Informative references table.

Informative references

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

Making harmful chemical agents harmless	A62D 3/00
Destroying solid waste or transforming solid waste into something useful or harmless, e.g. disposal of asbestos	B09B 3/00
Waste added during the cement production, i.e. in the kiln raw materials	C04B 7/24 , C04B 7/14
Waste glass	C04B 14/22
Solidification of liquid or solid radioactive waste	G21F 9/16 , G21F 9/34

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C04B 18/06

Definition statement

This place covers:

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

Combustion residues used as fillers for mortars, concrete or artificial stone, e.g. purification products of smoke, fumes or exhaust gases, bottom ash, coal ash or cinders.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Collecting residues from parts of furnace plants	F23J 3/06
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Delete: The entire Synonyms and Keywords section.

C04B 18/08

Definition statement

This place covers:

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

Flue dust, fly ash; which is used as fillers for mortars, concrete or artificial stone.

Examples include:

- Class N fly ash;
- Class F fly ash;
- Class C fly ash.

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ReferencesDelete: The entire Limiting references section.Insert: The following new Informative references section.**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Slaking of lime in the presence of fly ash	C04B 2/06
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Replace: The existing Synonyms and Keywords text with the following updated table.**Synonyms and Keywords***In patent documents, the following abbreviations are often used:*

PFA	Pulverised Fuel Ash
EFA	Electrofilter Ash
HVFA	High Volume Fly Ash
Class F Fly Ash	pozzolanic, usually from bituminous coal, low Ca, glass part is reactive with cement
Class C Fly Ash	pozzolanic and cementitious, normally from lignite or sub-bituminous coal

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C04B 18/10

Definition statement

This place covers:

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

Burned or pyrolised refuse used as filler for mortars, concrete or artificial stone, e.g. municipal solid waste, slags from waste incineration or burned paper processing waste.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Burned refuse in cement manufacturing	C04B 7/28
Incineration of waste	F23G 5/00

Replace: The existing Synonyms and Keywords text with the following table.

Synonyms and Keywords

In patent documents, the following abbreviations are often used:

MSW	Municipal solid waste
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C04B 18/14

Definition statement

This place covers:

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

Waste materials from metallurgical processes used as filler for mortars, concrete or artificial stone, such as nephelin slurry from Al production.

References

Limiting references

This place does not cover:

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

Treatment of molten slag	C04B5/00
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Insert: The following new Informative references section.

Informative references

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

Cements containing slag	C04B7/14
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Delete: The entire Synonyms and Keywords section.

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C04B 18/16

Definition statement

This place covers:

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

Waste materials or refuse from building or ceramic industry used as filler for mortars, concrete or artificial stone, e.g. reclaiming cement slurry or broken ceramic tiles.

References

Delete: The entire Limiting references section.

Insert: The following new reference in the Informative references table.

Informative references

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

Separating of concrete slurry as refuse	B03B 9/063
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Replace: The existing Special rules of classification text with the following updated text.

Special rules of classification

Foamed concrete as aggregate: two C-Sets are given, one with [C04B 18/16](#) and one with [C04B 18/027](#).

Delete: The entire Synonyms and Keywords section.

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C04B 18/162

Definition statement

This place covers:

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

Cement kiln dust or lime kiln dust used as filler for mortars, concrete or artificial stone.

Dust resulting from cement production.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Recuperation of cement kiln dust during cement fabrication	C04B 7/436
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C04B 18/18

Definition statement

This place covers:

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

Organic waste materials used as filler for mortars, concrete or artificial stone, such as hair, feathers, leather, manure, mest or wool fibers.

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References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Burned or pyrolised refuse	C04B18/10
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Delete: The entire Synonyms and Keywords section.

C04B 18/20

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Recycled expanded polystyrene	C04B 16/08
Recovery from working up of polymers	C08J 11/04

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C04B 18/243

References

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

Limiting references

This place does not cover:

Burned paper processing waste	C04B 18/10
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Insert: The following new Informative references section.

Informative references

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

Waste paper itself	C04B 18/241
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C04B 18/245

Definition statement

This place covers:

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

Cork, bark used as filler for mortars, concrete or artificial stone.

References

Delete: The entire Limiting references section.

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Informative references

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

Mechanical working of cork	B27J 5/00
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Insert: The following new Special rules of classification section.

Special rules of classification

Wood and bark are not synonymous, wood used as filler being classified in [C04B 18/26](#).

C04B 18/248

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Vegetable refuse, e.g. rice husks, maize-ear refuse, peat or algae; Cellulosic materials, e.g. paper or cork	C04B 18/24
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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	C04B 14/405	< administrative transfer to C04B 18/0475 >

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

NOTES:

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

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C04B 14/405		DELETE
C04B 18/0475	C04B 18/04	NEW
C04B 18/162	C04B 18/162	UPDATE
C04B 18/165	C04B 18/165	UPDATE
C04B 18/167	C04B 18/167	UPDATE

*Action column:

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

NOTES:

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

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5. CROSS-REFERENCE LIST (CRL)

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>
C04B33/1325	C04B14/405	Informative references	C04B18/0475

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.