

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1749

DATE: MAY 1, 2025

PROJECT RP11836

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols New:	C04B	20/0232
	C04B	40/0091
	C04B	2111/00019
Titles Changed:	C04B	22/00
	C04B	22/10
	C04B	22/103
Warnings New:	C04B	20/023
	C04B	20/0232
	C04B	22/10
	C04B	22/103
	C04B	40/0091
	C04B	40/0231
DEFINITIONS:		
Definitions Deleted:	C04B	20/1018
	C04B	20/1092
	C04B	22/004
	C04B	40/0032
	C04B	40/0263
	C04B	40/0277
Definitions New:	C04B	22/103
	C04B	40/0042
	C04B	40/0091
Definitions Modified:	C04B	20/0008
	C04B	20/002
	C04B	20/0048
	C04B	20/0052
	C04B	20/0076
	C04B	20/02
	C04B	20/04
	C04B	20/063
	C04B	20/065
	C04B	20/068
	C04B	20/08
	C04B	20/10
	C04B	20/1029
	C04B	20/1051
	C04B	20/1074

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	C04B	20/12
	C04B	22/00
	C04B	22/0006
	C04B	22/0013
	C04B	22/002
	C04B	22/0093
	C04B	22/02
	C04B	22/04
	C04B	22/06
	C04B	22/062
	C04B	22/068
	C04B	22/08
	C04B	22/10
	C04B	22/12
	C04B	22/124
	C04B	22/126
	C04B	22/14
	C04B	22/142
	C04B	22/147
	C04B	22/148
	C04B	22/16
	C04B	40/00
	C04B	40/0014
	C04B	40/0028
	C04B	40/0039
	C04B	40/005
	C04B	40/0092
	C04B	40/0096
	C04B	40/02
	C04B	40/024
	C04B	40/04
	C04B	40/06
	C04B	40/0608
	C04B	40/0666
	C04B	40/0683

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 C04B - LIME, MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE {}; CERAMICS; 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> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
U	C04B20/02	1	Treatment	
C	C04B20/023	2	{Chemical treatment}	C04B20/023, C04B20/0232
N	C04B20/0232	3	{with carbon dioxide}	
M	C04B22/00	0	Use of inorganic materials as active ingredients for mortars, concrete or artificial stone, e.g. accelerators {or shrinkage compensating agents}	
U	C04B22/08	1	Acids or salts thereof {(C04B22/0013 takes precedence)}	
C	C04B22/10	2	containing carbon in the anion, e.g. carbonates	C04B22/10, C04B22/103
T	C04B22/103	3	{Acids; Carbonic acids, e.g. from carbon dioxide}	
U	C04B40/0089	1	{making use of vacuum or reduced pressure}	
N	C04B40/0091	1	{Processes of mixing characterised by carbon dioxide treatment}	
C	C04B40/0231	2	{Carbon dioxide hardening}	C04B40/0231, C04B40/0091, C04B2111/00019
C	C04B2111/00017	1	{Aspects relating to the protection of the environment}	C04B2111/00017, C04B2111/00019
N	C04B2111/00019	2	{Carbon dioxide sequestration}	

*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.

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- 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 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 C04B - LIME, MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE {}; CERAMICS; REFRACTORIES; TREATMENT OF NATURAL STONE

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning</u>
N	C04B20/023		Group C04B20/023 is impacted by reclassification into group C04B20/0232. Groups C04B20/023 and C04B20/0232 should be considered in order to perform a complete search.
N	C04B20/0232		Group C04B20/0232 is incomplete pending reclassification of documents from group C04B20/023. Groups C04B20/023 and C04B20/0232 should be considered in order to perform a complete search.
N	C04B22/10		Group C04B22/10 is impacted by reclassification into group C04B22/103. Groups C04B22/10 and C04B22/103 should be considered in order to perform a complete search.
N	C04B22/103		Group C04B22/103 is incomplete pending reclassification of documents from group C04B22/10. Groups C04B22/103 and C04B22/10 should be considered in order to perform a complete search.
N	C04B40/0091		Group C04B40/0091 is incomplete pending reclassification of documents from group C04B40/0231. Groups C04B40/0091 and C04B40/0231 should be considered in order to perform a complete search.
N	C04B40/0231		Group C04B40/0231 is impacted by reclassification into group C04B40/0091. Groups C04B40/0231 and C04B40/0091 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.

2. A. DEFINITIONS (new)

C04B22/103

Definition statement

This place covers:

The addition of CO₂ in the cementitious mixture is as an additive.

CO₂ may be added in gaseous or liquid form.

C04B40/0042

Definition statement

This place covers:

The active ingredient is a premixture (admixture) on its own, in the form of a powder.

C04B40/0091

Definition statement

This place covers:

The mixing takes place in a CO₂ atmosphere or environment.

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2. A. DEFINITIONS (modified)

C04B20/0008

References

Delete: The entire Limiting references section.

Informative references

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

Nanotechnology for materials or surface science	B82Y30/00
Manufacture or treatment of nanostructures	B82Y40/00
Reinforcing elements for concrete	E04C5/01

C04B20/002

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 material	C04B18/027
Hollow or porous ceramic granular material	C04B38/009

Delete: The entire Special rules section.

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C04B20/0048

Definition statement

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

Mixtures of different fibres. Fibrous materials wherein the fibre type is important but not a singular type.

Insert: The following new Glossary of terms section.

Glossary of terms

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

fibre	relatively short, elongated member of natural or artificial material
filament	endless or quasi-endless, elongated member of natural or man-made material
yarn	unitary assembly of fibres or filaments, usually produced by spinning
thread	assembly of yarns or filaments usually produced by twisting

C04B20/0052

Definition statement

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

Mixtures of fibres of different physical characteristics used as materials for mortars, concrete or artificial stone, e.g. obtained by twisting.

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C04B20/0076

Definition statement

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

Materials used as fillers for mortars, concrete or artificial stone according to more than one of groups C04B14/00 - C04B18/00 and characterised by the grain distribution.

Glossary of terms

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

fine aggregate	material less than 5 mm
coarse aggregate	material at or more than 5 mm
concrete	material with more than 50% coarse aggregate
granules 0-3	material less than or equal to 3mm
mortar	material with no coarse aggregate

C04B20/02

Definition statement

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

Treatment specially adapted to enhance filling properties of materials used as fillers for mortars, concrete or artificial stone according to more than one of the groups C04B14/00 - C04B18/00, e.g. removing dust from particles or forming circular particles from scrap glass.

References

Delete: The entire Limiting references section.

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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:

Cation exchange of vermiculite	C04B14/206
Temporarily agglomerated materials	C04B18/028

C04B20/04

Definition statement

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

Heat treatment of materials according to more than one of the groups [C04B14/00](#) - [C04B18/00](#) specially adapted to enhance their filling properties in mortars, concrete or artificial stone, e.g. drying.

C04B20/063

Definition statement

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

Expanding clay, perlite, vermiculite or like granular materials by grate sintering to enhance their filling properties in mortars, concrete or artificial stone.

References

Delete: The entire Limiting references section.

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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:

Grate sintering of ores or scrap	C22B1/20
Endless-strand sintering apparatus	F27B21/06

Delete: The entire Synonyms and Keywords section.

Insert: The following new Glossary of terms section.

Glossary of terms

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

Dwight-Lloyd process	blast roasting
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C04B20/065

Definition statement

Insert: A period at the end of the existing Definition statement, so that the updated statement appears as follows.

Expanding clay, perlite, vermiculite or like granular materials in fluidised beds to enhance their filling properties in mortars, concrete or artificial stone.

Delete: The entire Synonyms and Keywords section.

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C04B20/068

References

Delete: The entire Limiting references section.

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

Informative references

Expanded clay	C04B14/12
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C04B20/08

Definition statement

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

Defibrillating asbestos to enhance its filling properties in mortars, concrete or artificial stone, e.g. dispersing or flocculating asbestos, or separating asbestos from bearing material or ores.

References

Limiting references

Delete: The following two rows from the existing Limiting references section.

"opening" fibres in general	D01G9/00
Carding machines	D01G15/02

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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:

Opening fibres in general	D01G9/00
Carding machines	D01G15/02

C04B20/10

References

Limiting references

Delete: The following two rows from the existing Limiting references section.

Mineralising wood	C04B 18/28
Coating glass fibres, asbestos or other mineral fibres	C03C 25/00

Insert: The following new Informative references section.

Informative references

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

Mineralising wood	C04B18/28
Coating glass fibres, asbestos or other mineral fibres	C03C25/00

Special rules of classification

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

If a mixture is used for the coating: last place rule applies, and C04B20/10 symbols are added for other ingredients in the C-Sets.

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C04B20/1029

Definition statement

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

Coating or impregnation of materials used as fillers for mortars, concrete or artificial stone according to more than one of groups [C04B14/00](#) - [C04B18/00](#), with macromolecular compounds, to enhance their filling properties, e.g. coating filler with polymer and pigments.

C04B20/1051

Definition statement

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

Coating or impregnating with organo-metallic compounds, organo-silicon compounds, materials according to more than one of the groups [C04B14/00](#) - [C04B18/00](#) to enhance their filling properties in mortars, concrete or artificial stone.

C04B20/1074

Definition statement

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

Coating or impregnating materials according to more than one of the groups [C04B14/00](#) - [C04B18/00](#) with silicates to enhance their filling properties in mortars, concrete or artificial stone, e.g. sand, silica fume or glass.

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:

Waterglass	C04B20/1085
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C04B20/12

Special rules of classification

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

C04B20/123 and C04B20/126 are only used as subsequent symbols in C-Sets along with C04B20/12 and should not be used as single symbols.

In the case of a composition with two coatings, wherein the first coating has two alternatives, C04B20/123 is added to a C-Sets to indicate the second alternative coating:

- Coating 1, first alternative (C04B20/12, C04B18/22, C04B20/1037);
- Coating 1, second alternative (C04B20/12, C04B18/22, C04B20/1033, C04B20/123);
- Coating 2 (C04B20/12, C04B18/22, C04B20/1055).

In the case of a composition with multiple coatings, the presence of a layer of the same material as in the previous coating layer is indicated by adding

C04B20/126 as a subsequent symbol in the C-Sets:

- Coating 1 (C04B20/12, C04B18/22, C04B20/1037);
- Coating 2 (C04B20/12, C04B18/22, C04B20/1033);
- Coating 3, same as coating 1 (C04B20/12, C04B18/22, C04B20/1037, C04B20/126).

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C04B22/00

Definition statement

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

Inorganic materials used as active ingredients for mortars, concrete or artificial stone, e.g. hydrazine (NH₂NH₂), silicates or hydroalumite 3CaO·Al₂O₃·CaX₂·nH₂O, X = (NO₃, NO₂, OH, CH₃COO, CO₃, SO₄).

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:

Alkali metal or ammonium silicates	C04B12/04
Zeolites	C04B14/047

Special rules of classification

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

Classification in [C04B22/00](#) and subgroups is made when these ingredients are (or suspected to be) new or unusual or special details describing this ingredient are given.

C04B22/0006

References

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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:

Nitre cake	C04B22/14
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Special rules of classification

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

Inorganic materials used as active ingredients for mortars, concrete or artificial stone are further classified in [C04B22/0006](#). Classification is provided in [C04B22/0006](#) only when another [C04B22/00](#) symbol is already applied to indicate that the ingredient(s) is a waste product.

C04B22/0013

Definition statement

Replace: The comma with a period at the end of the existing Definition statement, so that the updated statement appears as follows.

Boron compounds, e.g. fluoro-boron compounds used as active ingredients for mortars, concrete or artificial stone.

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:

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Organic boron compounds

C04B24/006

C04B22/002

Definition statement

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

Water, e.g. magnetised water, ionized water or alkali-ion water.

Special rules of classification

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

This symbol is given as a subsequent symbol in C-Sets or as an invention symbol only when very particular aspects of the mixing water are given.

C04B22/0093

Definition statement

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

Aluminates used as active ingredients for mortars, concrete or artificial stone.

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:

Calcium sulphoaluminates

C04B7/32

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Cement or like inorganic materials added as expanding or shrinkage compensating ingredients in mortars or concrete compositions	C04B22/008
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C04B22/02

Definition statement

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

Elements used as active ingredients for mortars, concrete or artificial stone, e.g. Si or O₃.

C04B22/04

Definition statement

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

Metals used as active ingredients for mortars, concrete or artificial stone.

C04B22/06

Definition statement

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

Oxides or hydroxides used as active ingredients for mortars, concrete or artificial stone, e.g. gelatinous Al(OH)₃.

References

Limiting references

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Boron compounds	C04B22/0013
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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:

Microsilica, e.g. colloidal silica	C04B14/062
Alumina	C04B14/303
Acids or salts containing carbon in the anion	C04B22/10

C04B22/062

Definition statement

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

Oxides or hydroxides of the alkali or alkaline-earth metals used as active ingredients for mortars, concrete or artificial stone, e.g. NH_4OH , hydroxylamine (NH_2OH), NaOH with soda impurities or KOH .

Synonyms and Keywords

Replace: The existing Synonyms and Keywords section with the following updated preamble and table.

In patent documents, the following words/expressions are often used with the meaning indicated:

Natron lye	Aqueous solution of NaOH
Potash lye	Aqueous solution of KOH

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C04B22/068

Definition statement

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

Peroxides used as active ingredients for mortars, concrete or artificial stone, e.g. H₂O₂.

C04B22/08

Definition statement

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

Acids or salts of inorganic materials used as active ingredients for mortars, concrete or artificial stone, e.g. molybdates or permanganates.

C04B22/10

Definition statement

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

Acids or salts of inorganic materials containing carbon in the anion, used as active ingredients for mortars, concrete or artificial stone, e.g. soda, (NH₄)₂CO₃, K₄(Fe(CN)₆).3H₂O yellow, K₃(Fe(CN)₆) red, cyanates, KCN or CO₂.

Synonyms and Keywords

Replace: The existing Synonyms and Keywords section with the following updated preamble and table.

In patent documents, the following words/expressions are often used with the meaning indicated:

Salmiac	(NH ₄) ₂ CO ₃
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C04B22/12**Definition statement**

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

Acids or salts of inorganic materials containing halogen in the anion used as active ingredients for mortars, concrete or artificial stone, e.g. $\text{CaCl}(\text{OCl})\cdot\text{CaO}\cdot\text{H}_2\text{O}$, Hg chloride or HCl.

Synonyms and Keywords

Replace: The existing Synonyms and Keywords section with the following updated preamble and table.

In patent documents, the following words/expressions are often used with the meaning indicated:

Bleaching powder	CaOCl_2 , calcium hypochlorite, $\text{Ca}(\text{OCl})_2$ or calcium oxychloride
Muriatic acid	Aqueous solution of hydrochloric acid [HCl]

C04B22/124**Definition statement**

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

Chlorides of ammonium or of alkali or alkaline earth metals used as active ingredients for mortars, concrete or artificial stone, e.g. NH_4Cl .

Insert: The following new Synonyms and Keywords section.

Synonyms and Keywords

In patent documents, the following words/expressions are often used with the meaning indicated:

Ammonium muriate	NH_4Cl
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C04B22/126

Definition statement

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

Fluorine compounds of inorganic materials used as active ingredients for mortars, concrete or artificial stone, e.g. silicofluorides or fluorosilicates.

C04B22/14

Definition statement

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

Acids or salts thereof of inorganic materials containing sulfur in the anion used as active ingredients for mortars, concrete or artificial stone, e.g. sulfamic acid ($\text{NH}_2\text{SO}_3\text{H}$), sodium thiosulfate ($\text{Na}_2\text{S}_2\text{O}_3 \cdot x 5\text{H}_2\text{O}$) or calcium thiocyanate.

C04B22/142

Definition statement

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

Sulfates of inorganic materials used as active ingredients for mortars, concrete or artificial stone, e.g. MgSO_4 , $\text{KFe}(\text{SO}_4)_2 \cdot x 12\text{H}_2\text{O}$ or mixtures of sulfates covered by [C04B22/142](#) and its subgroups.

References

Delete: The entire Limiting references section.

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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:

Acids or salts containing sulfur in the anion, e.g. Jarosite or bisulfates	C04B22/14
Aluminium-sulfate, e.g. alums	C04B22/148

Synonyms and Keywords

Replace: The existing Synonyms and Keywords section with the following updated preamble and table.

In patent documents, the following words/expressions are often used with the meaning indicated:

Alums	hydrate double sulfate salt of aluminium: $XAl(SO_4)_2 \cdot 12 H_2O$
Epsom salt	$MgSO_4$
Jarosite	basic hydrous sulfate of potassium and ferric iron: $KFe_3(SO_4)_2(OH)_6$
Potassium bisulfates	$KHSO_4$

C04B22/147

Definition statement

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

Alkali-metal sulfates or ammonium sulfate of inorganic materials used as active ingredients for mortars, concrete or artificial stone, e.g. glauberite ($Na_2Ca(SO_4)_2$).

References

Delete: The entire Limiting references section.

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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:

Sulfates other than alums	C04B22/142
Aluminium-sulfate, e.g. alums or alunite	C04B22/148

Insert: The following new Synonyms and Keywords section.

Synonyms and Keywords

In patent documents, the following words/expressions are often used with the meaning indicated:

Alums	hydrate double sulfate salt of aluminium: $XAl(SO_4)_2 \cdot 12 H_2O$
Alunite	$(KAl_3(SO_4)_2(OH)_6)$

C04B22/148

Definition statement

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

Aluminium-sulfate of inorganic materials used as active ingredients for mortars, concrete or artificial stone, e.g. alunite $(KAl_3(SO_4)_2(OH)_6)$ or alums $XAl(SO_4)_2 \cdot 12 H_2O$.

C04B22/16

Definition statement

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

Acids or salts thereof of inorganic materials containing phosphorus in the anion, e.g. $Na(NH_4)HPO_4 \cdot 4H_2O$.

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Insert: The following new Synonyms and Keywords section.

Synonyms and Keywords

In patent documents, the following words/expressions are often used with the meaning indicated:

Microcosmic salt	Na(NH ₄)HPO ₄ ·4H ₂ O
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C04B40/00

Definition statement

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

Processes for influencing or modifying the properties of mortars, concrete or artificial stone compositions occurring before the shaping of the composition.

Special rules of classification

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

Documents are classified in [C04B40/00](#) and subgroups when the preparation or characteristics of the mixture are the main aspect of the invention. If the mixture per se or its ingredients are considered new or unusual, classification is made for these aspects also in [C04B22/00](#) - [C04B32/00](#) and [C04B38/00](#). Process steps that are not the main aspect of the invention are classified as part of C-Sets of a mixture using entries from [C04B40/00](#).

For processes occurring after shaping or moulding of the composition that concern hardening, setting, pre-curing or curing, it should be classified in [C04B40/02](#).

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C04B40/0014

Special rules of classification

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

[C04B40/0082](#) and [C04B40/0263](#) contain older documents related to rise in temperature by microwaves.

C04B40/0028

Definition statement

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

Mixing steps or sequence of mixing steps, e.g. dry mixing, later adding water or aqueous solution or granulated mortar compacted in a mould.

C04B40/0039

Insert: The following new Definition statement.

Definition statement

This place covers:

An active ingredient that is a premixture or admixture on its own.

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:

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Sequence of mixing steps

C04B40/0028

Special rules of classification

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

This group is used as the main classification entry when the invention relates to an active ingredient that is a mixture on its own. The specific ingredients that are part of the mixture are classified in the C-Sets.

C04B40/005

Definition statement

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

High shear mixing of the mortar preparation.

Processes for obtaining macro-defect free materials.

Delete: The entire Informative references section, including the References heading.

Insert: The following new Relationships section.

Relationships with other classification places

Non-porous materials with macro-defect free are also classified in [C04B2111/00301](#).

Synonyms and Keywords

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

In patent documents the following abbreviations are often used:

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MDF	Macro-defect free
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C04B40/0092

Definition statement

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

Provisional binders, mortars or concrete, i.e. materials intended to be destroyed or removed after hardening, used in the processes for influencing or modifying the properties of mortars, concrete or artificial stone compositions, e.g. processes resulting in concretes with decreasing mechanical properties.

C04B40/0096

References

Delete: The entire Limiting references section.

Informative references

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

Control of cementation level in oil wells	E21B47/00
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C04B40/02

Definition statement

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

Processes occurring after the shaping or moulding of the composition that concern hardening, setting, pre-curing or curing.

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Special rules of classification

Replace: The existing Special rules text with the following updated text, including a period at the end.

See Special rules under [C04B40/00](#).

C04B40/024

Definition statement

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

Steam hardening of mortars, concrete or artificial stone compositions, e.g. as applied to "sand-lime" mixtures or lightweight concrete.

C04B40/04

References

Limiting references

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

Permanent coverings	C04B41/00
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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:

Protecting building materials against unfavourable weather influence	E04G21/28
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C04B40/06

Definition statement

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

Inhibiting the setting or inhibiting the action of active ingredients of mortars, concrete or artificial stone compositions, e.g. coating cements with retarder.

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:

Coating cement powders with retarder	C04B20/10
Producing shaped articles from dry mixtures containing fibres to which a setting agent is applied after forming	B28B1/521
Encapsulated ingredients for macromolecular compositions	C08K9/10
Ground anchors for anchoring structural elements or bulkheads	E02D5/80
Anchoring-bolts for roof, floor or shaft-lining protection	E21D20/00

C04B40/0608

Definition statement

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

Inhibiting the setting with dry ready-made mixture.

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Factory made dry mixtures of sands, binders and additives, transported in containers or sacks to the place of use where water is added to make them workable.

The complete dry ready-made cementitious or cement composition is considered as a whole for classification.

Insert: The following new Relationships section.

Relationships with other classification places

Premixture of ingredients in dry form added to the cementitious composition is classified in [C04B40/0042](#).

Delete: The entire Synonyms and Keywords section.

C04B40/0666

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:

Chemical plugs in general	F16B13/142
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C04B40/0683

Definition statement

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

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Inhibiting the setting by freezing or cooling, e.g. by adding snow or ice.

References

Informative references

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

Creating porosity by melting ice	C04B38/00
Creating porosity by melting out added substances	C04B38/061

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
C04B20/1018			Delete the entire Definition
C04B20/1092			Delete the entire Definition
C04B22/004			Delete the entire Definition
C04B40/0032			Delete the entire Definition
C04B40/0263			Delete the entire Definition
C04B40/0277			Delete the entire Definition

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C04B20/023	C04B20/023, C04B20/0232
C	C04B22/10	C04B22/10, C04B22/103
C	C04B40/0231	C04B40/0231, C04B40/0091, C04B2111/00019
C	C04B2111/00017	C04B2111/00017, C04B2111/00019

* 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>
C04B20/0232	C04B20/02	NEW
C04B40/0091	C04B40/00	NEW
C04B2111/00019	C04B111/00	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.