

# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

### CHEMISTRY

**C08 ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON** (manufacture or treatment of artificial threads, fibres, bristles or ribbons [D01](#))

**C08K USE OF INORGANIC OR NON-MACROMOLECULAR ORGANIC SUBSTANCES AS COMPOUNDING INGREDIENTS** (pesticides, herbicides [A01N](#); pharmaceuticals, cosmetics [A61K](#); explosives [C06B](#); paints, inks, varnishes, dyes, polishes, adhesives [C09](#); lubricants [C10M](#); detergents [C11D](#); artificial filaments or fibres [D01F](#); textile treating compositions [D06](#))

#### NOTES

1. The use of an ingredient for a specific polymer is classified by adding, in a C-set, to the group symbol of [C08K](#), the subdivision of [C08L 1/00](#) - [C08L 99/00](#). Example: Polystyrene containing a carboxylic amide is classified in ([C08K 5/20](#), [C08L 25/06](#)).
2. From April 2012, the use of an ingredient for a specific polymer is classified by adding, in a C-set, to the group symbol of [C08K](#), the subdivision of [C08L 1/00](#) - [C08L 99/00](#). Example: Polystyrene containing a carboxylic amide is classified in ([C08K 5/20](#), [C08L 25/06](#)).
3. In this subclass, in the absence of an indication to the contrary, an ingredient is classified in the last appropriate place.
4. In this subclass:
  - a mixture of ingredients is classified in the most indented group covering all the essential ingredients of the mixture, e.g.:
    - a mixture of a monohydric and a polyhydric alcohol [C08K 5/05](#)
    - a mixture of two polyhydric alcohols [C08K 5/053](#)
    - a mixture of an alcohol and an ether [C08K 5/04](#)
    - a mixture of an ether and an amine [C08K 5/00](#)
    - a mixture of an amine and a metal [C08K 13/02](#)
  - { This note is applied only for mixtures with more than three essential ingredients. Mixtures with two or three ingredients are classified in the appropriate groups of [C08K](#), e.g. a mixture of Al<sub>2</sub>O<sub>3</sub>, an ether and an amine is classified in [C08K 3/22](#), [C08K 5/06](#) and [C08K 5/17](#)}
  - ammonium salts are classified in the same way as metal salts
5. In this subclass, organic acid salts, alcoholates, phenolates or mercaptides are classified in the groups or subgroups of the parent compounds
6. The use of an ingredient for a specific polymer is classified by adding to the group symbol of [C08K](#) and separated therefrom by a "+" sign, the subdivision of [C08L 1/00](#) - [C08L 99/00](#).  
Example: Polystyrene containing a carboxylic amide is classified in [C08K 5/20](#) + [C08L 25/06](#)
7. In this subclass are considered as compounding ingredients:
  - inert additives
  - radical crosslinking agents, e.g. peroxides, S-containing vulcanisation agents
  - coupling agents, i.e. compounds able to improve the adhesion between filler and macromolecule
 Are not considered as compounding ingredients:
  - chemical modifying or crosslinking agents which react via a condensation or addition mechanism (for [C08B](#) polymers [C08B](#), for diene rubbers [C08C 19/30](#), for other vinyl polymers [C08F 8/00](#), for polysiloxanes [C08L 83/00](#), for other [C08G](#) polymers [C08G](#))
  - solvents or dispersion agents for making polymer solutions, emulsions or dispersions ([C08J 3/02](#))
  - blowing agents ([C08J 9/04](#))

#### WARNING

The following IPC group is not used in the CPC system. Subject matter covered by this group is classified in the following CPC groups:

[C08K 5/5445](#)

covered by

[C08K 5/544](#)

**3/00 Use of inorganic ingredients**

3/0008 . {Inorganic ingredients according to more than one of the "one dot" groups of [C08K 3/02](#) - [C08K 3/40](#)}

3/0016 . . {Crosslinking or vulcanising agents, including accelerators}

3/0025	. . {Additives activating the degradation of the macromolecular compound}	3/044	. . . {Carbon nanohorns or nanobells}
3/0033	. . {Fillers, pigments, reinforcing additives}	<b>WARNING</b>	
3/0041	. . {Stabilisers against oxidation, heat, light, ozone}	Group <a href="#">C08K 3/044</a> is incomplete pending reclassification of documents from groups <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> .	
3/005	. . {Biocides; (macromolecular substances as carriers for biocide material <a href="#">A01N 25/10</a> )}	Groups <a href="#">C08K 3/044</a> , <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> should be considered in order to perform a complete search.	
3/0058	. . {Flame-proofing or flame-retarding additives}	3/045	. . . {Fullerenes}
3/0066	. . {Antistatics}	<b>WARNING</b>	
3/0075	. {Metal containing compounds according to more than one of the "one dot" groups of <a href="#">C08K 3/10</a> - <a href="#">C08K 3/40</a> }	Group <a href="#">C08K 3/045</a> is incomplete pending reclassification of documents from groups <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> .	
3/0083	. . {Compounds containing metals of the 1st to 3rd Group of the Periodic system}	Groups <a href="#">C08K 3/045</a> , <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> should be considered in order to perform a complete search.	
3/0091	. . {Compounds containing metals of the 4th to 8th Group of the Periodic system, e.g. nickel compounds}	3/046	. . . {Carbon nanorods, nanowires, nanoplatelets or nanofibres}
3/02	. Elements	<b>WARNING</b>	
2003/023	. . {Silicon}	Group <a href="#">C08K 3/046</a> is incomplete pending reclassification of documents from groups <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> .	
2003/026	. . {Phosphorus}	Groups <a href="#">C08K 3/046</a> , <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> should be considered in order to perform a complete search.	
3/04	. . Carbon		
<b>WARNING</b>			
Group <a href="#">C08K 3/04</a> is impacted by reclassification into groups <a href="#">C08K 3/041</a> , <a href="#">C08K 3/042</a> , <a href="#">C08K 3/043</a> , <a href="#">C08K 3/044</a> , <a href="#">C08K 3/045</a> and <a href="#">C08K 3/046</a> .			
All groups listed in this warning should be considered in order to perform a complete search.			
3/041	. . . {Carbon nanotubes}	3/06	. . Sulfur
<b>WARNING</b>		3/08	. . Metals
Group <a href="#">C08K 3/041</a> is incomplete pending reclassification of documents from groups <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> .		2003/0806	. . . {Silver}
Groups <a href="#">C08K 3/041</a> , <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> should be considered in order to perform a complete search.		2003/0812	. . . {Aluminium}
3/042	. . . {Graphene or derivatives, e.g. graphene oxides}	2003/0818	. . . {Alkali metal}
<b>WARNING</b>		2003/0825	. . . . {Potassium}
Group <a href="#">C08K 3/042</a> is incomplete pending reclassification of documents from groups <a href="#">C08K 3/04</a> and <a href="#">C08K 3/20</a> .		2003/0831	. . . {Gold}
Groups <a href="#">C08K 3/042</a> , <a href="#">C08K 3/04</a> and <a href="#">C08K 3/20</a> should be considered in order to perform a complete search.		2003/0837	. . . {Bismuth}
3/043	. . . {Carbon nanocoils}	2003/0843	. . . {Cobalt}
<b>WARNING</b>		2003/085	. . . {Copper}
Group <a href="#">C08K 3/043</a> is incomplete pending reclassification of documents from groups <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> .		2003/0856	. . . {Iron}
Groups <a href="#">C08K 3/043</a> , <a href="#">C08K 3/04</a> and <a href="#">C08K 7/24</a> should be considered in order to perform a complete search.		2003/0862	. . . {Nickel}
		2003/0868	. . . {Osmium}
		2003/0875	. . . {Antimony}
		2003/0881	. . . {Titanium}
		2003/0887	. . . {Tungsten}
		2003/0893	. . . {Zinc}
		3/10	. Metal compounds
		3/12	. . Hydrides
		3/14	. . Carbides
		3/16	. Halogen-containing compounds
		2003/162	. . {Calcium, strontium or barium halides, e.g. calcium, strontium or barium chloride}
		2003/164	. . {Aluminum halide, e.g. aluminium chloride}
		2003/166	. . {Magnesium halide, e.g. magnesium chloride}
		2003/168	. . {Zinc halides}
		3/18	. Oxygen-containing compounds, e.g. metal carbonyls

3/20	. . Oxides; Hydroxides {( <a href="#">graphene oxides C08K 3/042</a> )}	2003/321	. . {Phosphates}
	<b>WARNING</b>	2003/322	. . . {Ammonium phosphate}
	Group <a href="#">C08K 3/20</a> is impacted by reclassification into group <a href="#">C08K 3/042</a> .	2003/323	. . . . {Ammonium polyphosphate}
	Groups <a href="#">C08K 3/20</a> , and <a href="#">C08K 3/042</a> should be considered in order to perform a complete search.	2003/324	. . . {Alkali metal phosphate}
3/22	. . . of metals	2003/325	. . . {Calcium, strontium or barium phosphate}
2003/2203	. . . . {of lithium}	2003/326	. . . {Magnesium phosphate}
2003/2206	. . . . {of calcium, strontium or barium}	2003/327	. . . {Aluminium phosphate}
2003/221	. . . . {of rare earth metal}	2003/328	. . . {Phosphates of heavy metals}
2003/2213	. . . . . {of cerium}	2003/329	. . {Phosphorus containing acids}
2003/2217	. . . . . {of magnesium}	3/34	. Silicon-containing compounds
2003/222	. . . . . {Magnesia, i.e. magnesium oxide}	2003/343	. . {Peroxyhydrates, peroxyacids or salts thereof}
2003/2224	. . . . . {Magnesium hydroxide}	3/346	. . {Clay}
2003/2227	. . . . . {of aluminium}	3/36	. . Silica
2003/2231	. . . . . {of tin}	3/38	. Boron-containing compounds
2003/2234	. . . . . {of lead}	2003/382	. . {and nitrogen}
2003/2237	. . . . . {of titanium}	2003/385	. . . {Binary compounds of nitrogen with boron}
2003/2241	. . . . . {Titanium dioxide}	2003/387	. . {Borates}
2003/2244	. . . . . {of zirconium}	3/40	. Glass
2003/2248	. . . . . {of copper}		
2003/2251	. . . . . {of chromium}	<b>5/00</b>	<b>Use of organic ingredients</b>
2003/2255	. . . . . {of molybdenum}	5/0008	. {Organic ingredients according to more than one of the "one dot" groups of <a href="#">C08K 5/01</a> - <a href="#">C08K 5/59</a> }
2003/2258	. . . . . {of tungsten}	5/0016	. . {Plasticisers}
2003/2262	. . . . . {of manganese}	5/0025	. . {Crosslinking or vulcanising agents; including accelerators}
2003/2265	. . . . . {of iron}	5/0033	. . {Additives activating the degradation of the macromolecular compound}
2003/2268	. . . . . {Ferrous oxide (FeO)}	5/0041	. . {Optical brightening agents, organic pigments}
2003/2272	. . . . . {Ferric oxide (Fe <sub>2</sub> O <sub>3</sub> )}	5/005	. . {Stabilisers against oxidation, heat, light, ozone}
2003/2275	. . . . . {Ferroso-ferric oxide (Fe <sub>3</sub> O <sub>4</sub> )}	5/0058	. . {Biocides; ( <a href="#">macromolecular substances as carriers for biocide material A01N 25/10</a> )}
3/2279	. . . . . {of antimony}	5/0066	. . {Flame-proofing or flame-retarding additives}
2003/2282	. . . . . {Antimonates}	5/0075	. . {Antistatics}
2003/2286	. . . . . {of silver}	5/0083	. . {Nucleating agents promoting the crystallisation of the polymer matrix}
2003/2289	. . . . . {of cobalt}	5/0091	. . {Complexes with metal-heteroatom-bonds}
2003/2293	. . . . . {of nickel}	5/01	. Hydrocarbons {( <a href="#">C08K 5/0091</a> takes precedence)}
2003/2296	. . . . . {of zinc}	5/02	. Halogenated hydrocarbons {( <a href="#">C08K 5/0091</a> takes precedence)}
3/24	. . Acids; Salts thereof {( <a href="#">C08K 3/16</a> takes precedence)}	5/03	. . aromatic{, e.g. C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> -Cl}
3/26	. . . Carbonates; Bicarbonates	5/04	. Oxygen-containing compounds {( <a href="#">C08K 5/0091</a> takes precedence)}
2003/262	. . . . {Alkali metal carbonates}	5/05	. . Alcohols; Metal alcoholates
2003/265	. . . . {Calcium, strontium or barium carbonate}	5/053	. . . Polyhydroxylic alcohols
2003/267	. . . . {Magnesium carbonate}	5/057	. . . Metal alcoholates {( <a href="#">metal enolates C08K 5/0091</a> )}
3/28	. Nitrogen-containing compounds	5/06	. . Ethers; Acetals; Ketals; Ortho-esters
2003/282	. . {Binary compounds of nitrogen with aluminium}	5/07	. . Aldehydes; Ketones
2003/285	. . {Ammonium nitrates}	5/08	. . . Quinones
2003/287	. . {Calcium, strontium or barium nitrates}	5/09	. . Carboxylic acids; Metal salts thereof; Anhydrides thereof
3/30	. Sulfur-, selenium- or tellurium-containing compounds	5/092	. . . Polycarboxylic acids
2003/3009	. . {Sulfides}	5/095	. . . Carboxylic acids containing halogens
2003/3018	. . . {of magnesium, calcium, strontium or barium}	5/098	. . . Metal salts of carboxylic acids
2003/3027	. . . {of cadmium}	5/10	. . Esters; Ether-esters
2003/3036	. . . {of zinc}	5/101	. . . of monocarboxylic acids
2003/3045	. . {Sulfates}	5/103	. . . . with polyalcohols
2003/3054	. . . {Ammonium sulfates}	5/105	. . . . with phenols
2003/3063	. . . {Magnesium sulfate}	5/107	. . . . . with polyphenols
2003/3072	. . . {Iron sulfates}	5/109	. . . of carbonic acid{, e.g. R-O-C(=O)-O-R}
2003/3081	. . . {Aluminum sulfate}	5/11	. . . of acyclic polycarboxylic acids
2003/309	. . {Sulfur containing acids}	5/12	. . . of cyclic polycarboxylic acids
3/32	. Phosphorus-containing compounds		

- 5/13 . . Phenols; Phenolates
- 5/132 . . . Phenols containing keto groups{, e.g. benzophenones}
- 5/134 . . . Phenols containing ester groups
- 5/1345 . . . {Carboxylic esters of phenolcarboxylic acids}
- 5/136 . . . Phenols containing halogens
- 5/138 . . . Phenolates
- 5/14 . . Peroxides
- 5/15 . . Heterocyclic compounds having oxygen in the ring
- 5/151 . . . having one oxygen atom in the ring
- 5/1515 . . . . Three-membered rings
- 5/1525 . . . . Four-membered rings
- 5/1535 . . . . Five-membered rings
- 5/1539 . . . . . Cyclic anhydrides
- 5/1545 . . . . Six-membered rings
- 5/156 . . . having two oxygen atoms in the ring
- 5/1565 . . . . Five-membered rings
- 5/1575 . . . . Six-membered rings
- 5/159 . . . having more than two oxygen atoms in the ring
- 5/16 . Nitrogen-containing compounds {(C08K 5/0091 takes precedence)}
- 5/17 . . Amines; Quaternary ammonium compounds
- 5/175 . . . {containing COOH-groups; Esters or salts thereof}
- 5/18 . . . with aromatically bound amino groups
- 5/19 . . . Quaternary ammonium compounds
- 5/20 . . Carboxylic acid amides
- 5/205 . . Compounds containing  $\begin{array}{c} \text{O} \\ \parallel \\ -\text{O}-\text{C}-\text{N}-\text{K} \end{array}$  groups, e.g. carbamates
- 5/21 . . Urea; Derivatives thereof, e.g. biuret
- 5/22 . . Compounds containing nitrogen bound to another nitrogen atom
- 5/23 . . . Azo-compounds
- 5/235 . . . . {Diazo and polyazo compounds}
- 5/24 . . . Derivatives of hydrazine
- 5/25 . . . . Carboxylic acid hydrazides
- 5/26 . . . . Semicarbazides
- 5/27 . . . Compounds containing a nitrogen atom bound to two other nitrogen atoms, e.g. diazoamino-compounds
- 5/28 . . . . Azides
- 5/29 . . Compounds containing {one or more} carbon-to-nitrogen double bonds
- 5/30 . . . Hydrazones; Semicarbazones
- 5/31 . . . Guanidine; Derivatives thereof
- 5/315 . . Compounds containing carbon-to-nitrogen triple bonds
- 5/3155 . . . {Dicyandiamide}
- 5/32 . . Compounds containing nitrogen bound to oxygen
- 5/33 . . . Oximes
- 5/34 . . Heterocyclic compounds having nitrogen in the ring
- 5/3412 . . . having one nitrogen atom in the ring
- 5/3415 . . . . Five-membered rings
- 5/3417 . . . . . condensed with carbocyclic rings
- 5/3432 . . . . Six-membered rings
- 5/3435 . . . . . Piperidines
- 5/3437 . . . . . condensed with carbocyclic rings
- 5/3442 . . . having two nitrogen atoms in the ring
- 5/3445 . . . . Five-membered rings
- 5/3447 . . . . . condensed with carbocyclic rings
- 5/3462 . . . . Six-membered rings
- 5/3465 . . . . . condensed with carbocyclic rings
- 5/3467 . . . having more than two nitrogen atoms in the ring
- 5/3472 . . . . Five-membered rings
- 5/3475 . . . . . condensed with carbocyclic rings
- 5/3477 . . . . Six-membered rings
- 5/3492 . . . . . Triazines
- 5/34922 . . . . . {Melamine; Derivatives thereof}
- 5/34924 . . . . . {containing cyanurate groups; Tautomers thereof}
- 5/34926 . . . . . {also containing heterocyclic groups other than triazine groups}
- 5/34928 . . . . . {Salts}
- 5/3495 . . . . . condensed with carbocyclic rings
- 5/35 . . . having also oxygen in the ring
- 5/353 . . . . Five-membered rings
- 5/357 . . . . Six-membered rings
- 5/36 . Sulfur-, selenium-, or tellurium-containing compounds {(C08K 5/0091 takes precedence)}
- 5/37 . . Thiols
- 5/372 . . . Sulfides{, e.g. R-(S)x-R'}
- 5/3725 . . . . {containing nitrogen}
- 5/375 . . . containing six-membered aromatic rings {(C08K 5/3725 takes precedence)}
- 5/378 . . . containing heterocyclic rings
- 5/38 . . Thiocarbonic acids; Derivatives thereof, e.g. xanthates{; i.e. compounds containing -X-C(=X)-groups, X being oxygen or sulfur, at least one X being sulfur}
- 5/39 . . Thiocarbamic acids; Derivatives thereof, e.g. dithiocarbamates
- 5/40 . . . Thiurams, {i.e. compounds containing  $\begin{array}{c} \text{N}-\text{C}-\{\text{S}\}_x-\text{C}-\text{N}-\text{K} \\ \parallel \quad \parallel \\ \text{S} \quad \text{S} \end{array}$  groups}
- 5/405 . . . Thioureas; Derivatives thereof
- 5/41 . . Compounds containing sulfur bound to oxygen
- 5/42 . . . Sulfonic acids; Derivatives thereof
- 5/43 . . Compounds containing sulfur bound to nitrogen
- 5/435 . . . Sulfonamides
- 5/44 . . . Sulfenamides
- 5/45 . . Heterocyclic compounds having sulfur in the ring
- 5/46 . . . with oxygen or nitrogen in the ring
- 5/47 . . . . Thiazoles
- 5/48 . . Selenium- or tellurium-containing compounds
- 5/49 . Phosphorus-containing compounds {(C08K 5/0091 takes precedence)}
- 5/50 . . Phosphorus bound to carbon only
- 5/51 . . Phosphorus bound to oxygen
- 5/52 . . . Phosphorus bound to oxygen only
- 5/5205 . . . . {Salts of P-acids with N-bases}
- 5/521 . . . . Esters of phosphoric acids, e.g. of H<sub>3</sub>PO<sub>4</sub>
- 5/523 . . . . . with hydroxyaryl compounds
- 5/524 . . . . Esters of phosphorous acids, e.g. of H<sub>3</sub>PO<sub>3</sub>
- 5/526 . . . . . with hydroxyaryl compounds
- 5/527 . . . . Cyclic esters
- 5/529 . . . . Esters containing heterocyclic rings not representing cyclic esters of phosphoric or phosphorous acids

- 5/53 . . . bound to oxygen and to carbon only
- 5/5313 . . . . Phosphinic compounds, e.g.  $R_2=P(O)OR'$
- 5/5317 . . . . Phosphonic compounds, e.g.  $R-P(O)(OR')_2$
- 5/5333 . . . . Esters of phosphonic acids
- 5/5337 . . . . . containing also halogens
- 5/5353 . . . . . containing also nitrogen
- 5/5357 . . . . . cyclic
- 5/5373 . . . . . containing heterocyclic rings not representing cyclic esters of phosphonic acids
- 5/5377 . . . . Phosphinous compounds, e.g.  $R_2=P-OR'$
- 5/5393 . . . . Phosphonous compounds, e.g.  $R-P(OR')_2$
- 5/5397 . . . . Phosphine oxides
- 5/5398 . . Phosphorus bound to sulfur
- 5/5399 . . Phosphorus bound to nitrogen
- 5/54 . Silicon-containing compounds {(C08K 5/0091 takes precedence)}
- 5/5403 . . {containing no other elements than carbon or hydrogen}
- 5/5406 . . {containing elements other than oxygen or nitrogen}
- 5/541 . . containing oxygen
- 5/5415 . . . containing at least one Si—O bond
- 5/5419 . . . . containing at least one Si—C bond
- 5/5425 . . . containing at least one C=C bond
- 5/5435 . . . containing oxygen in a ring
- 5/544 . . containing nitrogen
- 5/5442 . . . {containing nitrogen in a heterocyclic ring}
- 5/5455 . . . containing at least one  $\begin{array}{c} \square \\ | \\ >N-C- \end{array}$  group  
{(C08K 5/5442 takes precedence)}
- 5/5465 . . . containing at least one C=N bond  
{(C08K 5/5442 takes precedence)}
- 5/5475 . . . containing at least one C-N {triple} bond  
{(C08K 5/5442 takes precedence)}
- 5/548 . . containing sulfur {(C08K 5/5442 takes precedence)}
- 5/549 . . containing silicon in a ring
- 5/55 . Boron-containing compounds {(C08K 5/0091 takes precedence)}
- 5/56 . Organo-metallic compounds, i.e. organic compounds containing a metal-to-carbon bond
- 5/57 . . Organo-tin compounds
- 5/58 . . . containing sulfur
- 5/59 . Arsenic- or antimony-containing compounds

## 7/00 Use of ingredients characterised by shape

- 7/02 . Fibres or whiskers
- 7/04 . . inorganic
- 7/06 . . . Elements
- 7/08 . . . Oxygen-containing compounds
- 7/10 . . . Silicon-containing compounds
- 7/12 . . . . Asbestos
- 7/14 . . . Glass
- 7/16 . Solid spheres
- 7/18 . . inorganic
- 7/20 . . . Glass
- 7/22 . Expanded, porous or hollow particles

- 7/24 . . . inorganic

## WARNING

Group C08K 7/24 is impacted by reclassification into groups C08K 3/041, C08K 3/042, C08K 3/043, C08K 3/044, C08K 3/045 and C08K 3/046.

All groups listed in this warning should be considered in order to perform a complete search.

- 7/26 . . . Silicon- containing compounds

- 7/28 . . . Glass

## 9/00 Use of pretreated ingredients

- 9/02 . Ingredients treated with inorganic substances
- 9/04 . Ingredients treated with organic substances {(treated with macromolecular compounds C08K 9/08)}
- 9/06 . . with silicon-containing compounds
- 9/08 . Ingredients agglomerated by treatment with a binding agent
- 9/10 . Encapsulated ingredients
- 9/12 . Adsorbed ingredients {, e.g. ingredients on carriers}

## 11/00 Use of ingredients of unknown constitution, e.g. undefined reaction products

- 11/005 . {Waste materials, e.g. treated or untreated sewage sludge}

## 13/00 Use of mixtures of ingredients not covered by one single of the preceding main groups, each of these compounds being essential

- 13/02 . Organic and inorganic ingredients
- 13/04 . Ingredients characterised by their shape and organic or inorganic ingredients
- 13/06 . Pretreated ingredients and ingredients covered by the main groups C08K 3/00 - C08K 7/00
- 13/08 . Ingredients of unknown constitution and ingredients covered by the main groups C08K 3/00 - C08K 9/00

## 2201/00 Specific properties of additives

- 2201/001 . Conductive additives
- 2201/002 . Physical properties
- 2201/003 . . Additives being defined by their diameter
- 2201/004 . . Additives being defined by their length
- 2201/005 . . Additives being defined by their particle size in general
- 2201/006 . . Additives being defined by their surface area
- 2201/007 . Fragrance additive
- 2201/008 . Additives improving gas barrier properties
- 2201/009 . Additives being defined by their hardness
- 2201/01 . Magnetic additives
- 2201/011 . Nanostructured additives
- 2201/012 . Additives improving oxygen scavenging properties
- 2201/013 . Additives applied to the surface of polymers or polymer particles
- 2201/014 . Additives containing two or more different additives of the same subgroup in C08K
- 2201/015 . Additives for heat shrinkable compositions
- 2201/016 . Additives defined by their aspect ratio
- 2201/017 . Additives being an antistatic agent
- 2201/018 . Additives for biodegradable polymeric composition
- 2201/019 . the composition being defined by the absence of a certain additive