SECTION C — CHEMISTRY; METALLURGY

C10 PETROLEUM, GAS OR COKE INDUSTRIES; TECHNICAL GASES CONTAINING CARBON MONOXIDE; FUELS; LUBRICANTS; PEAT

C10M LUBRICATING COMPOSITIONS (well drilling compositions C09K 8/02); USE OF CHEMICAL SUBSTANCES EITHER ALONE OR AS LUBRICATING INGREDIENTS IN A LUBRICATING COMPOSITION (mould release, i.e. separating, agents for metals B22C 3/00, for plastics or substances in a plastic state, in general B29C 33/56, for glass C03B 40/02; textile lubricating compositions D06M 11/00, D06M 13/00, D06M 15/00; immersion oils for microscopy G02B 21/33) [4]

Note(s) [4, 2006.01]

- 1. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "lubricant" or "lubricating composition" includes cutting oils, hydraulic fluids, metal drawing compositions, flushing oils, slushing oils, or the like;
 - "aliphatic" includes "cycloaliphatic".
- 2. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place. Thus, a compound having an aromatic ring is classified as aromatic regardless of whether the substituent(s) of interest are on the ring or on an aliphatic part of the molecule.
- 3. In this subclass:
 - a. metal or ammonium salts of a compound are classified as that compound;
 - salts or adducts formed between two or more organic compounds are classified according to all compounds forming the salt or adduct, if of interest:
 - c. a specified compound, e.g. phenols, acids, <u>substituted</u> by a macromolecular hydrocarbon radical is classified as that compound;
 - d. base-materials or thickeners or additives consisting of a mixture for which no specific main group is provided are classified in the most indented group covering <u>all essential constituents</u> of the mixture, for example,
 - a base-material mixture of ketone and amide group C10M 105/00;
 - a base-material mixture of ketone and ether group C10M 105/08;
 - an additive mixture of long and short chain esters group C10M 129/00;
 - an additive mixture of short chain aliphatic and aromatic carboxylic acids group C10M 129/26;
 - e. except for aqueous lubricating compositions containing more than 10% water, which are classified separately, classification is made according to the type of ingredient or mixture of types of ingredient (base-material, thickener or additive) which characterises the composition.

Attention is drawn to the fact that a mixture of essential ingredients characterised by <u>only one</u> of its components, rather than by the mixture as a whole, is <u>not</u> classified as a mixture, e.g., a lubricating composition consisting of:

- · a known base-material and a new additive is classified only in the "additive" part of the classification scheme;
- a known base-material with both a thickener and a further additive as essential ingredients, which may be individually known or not, is classified as a mixture of thickener and additive;
- a known base-material with a combination of additives as essential ingredients, which may be individually known or not, is classified in the appropriate place for the additive mixture.
- 4. Any part of a composition which is not identified by the classification according to Notes (2) or (3) above, and which itself is determined to be novel and non-obvious, must also be classified in the last appropriate place. The part can be either a single ingredient or a composition in itself.
- 5. Any part of a composition which is not identified by the classification according to Notes (2) to (4) above, and which is considered to represent information of interest for search, may also be classified in the last appropriate place. This can, for example, be the case when it is considered of interest to enable searching of compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information".
- 6. In this subclass, it is desirable to add the indexing codes of subclass C10N.

Subclass index

BASE-MATERIALS

| DASE-WALEKIALS | |
|---|--------|
| Mineral or fatty oils | 101/00 |
| Inorganic materials | 103/00 |
| Non-macromolecular organic compounds | 105/00 |
| Macromolecular compounds | 107/00 |
| Compounds of unknown or incompletely defined constitution | 109/00 |
| Mixtures | |
| THICKENERS | |
| Inorganic materials | 113/00 |
| Non-macromolecular organic compounds | |
| Macromolecular compounds | 119/00 |

2

| - | oounds of unknown or incompletely defined constitution | | |
|----------|---|------------------|--|
| ADDITI | | •••••• | 123/00, 103/00 |
| | anic materials | | 125/00 |
| Non- | macromolecular organic compounds | | 127/00-139/00 |
| | omolecular compounds | | |
| - | pounds of unknown or incompletely defined constitution | | |
| | ITES | | |
| | SITIONS CHARACTERISED BY PHYSICAL PROPERTIES. | | |
| - | US COMPOSITIONS NG-UP | | |
| | ATION OR AFTER TREATMENT | | |
| TILLITH | THIOTO ORTH TER TREATMENT | •••••• | 177700 |
| | | | |
| Base-ma | terials [4] | 105/42 | • • Complex esters, i.e. compounds containing at |
| | | | least three esterified carboxyl groups and |
| 101/00 | Lubricating compositions characterised by the base- material being a mineral or fatty oil (containing more than 10% water C10M 173/00) [4, 2006.01] | | derived from the combination of at least three different types of the following five types of |
| 101/02 | Petroleum fractions [4, 2006.01] | | compound: monohydroxy compounds, polyhydroxy compounds, monocarboxylic |
| 101/02 | | | acids, polycarboxylic acids and hydroxy |
| 101/04 | • Fatty oil fractions [4, 2006.01] | | carboxylic acids [4, 2006.01] |
| 103/00 | Lubricating compositions characterised by the base- | 105/44 | • • • derived from the combination of |
| | material being an inorganic material (containing | | monocarboxylic acids, dicarboxylic acids |
| | more than 10% water C10M 173/00) [4, 2006.01] | | and dihydroxy compounds only and having |
| 103/02 | Carbon; Graphite [4, 2006.01] | | no free hydroxy or carboxyl |
| 103/04 | Metals; Alloys [4, 2006.01] | | groups [4, 2006.01] |
| 103/06 | • Metal compounds [4, 2006.01] | 105/46 | • • • • derived from the combination of monohydroxy compounds, dihydroxy |
| 105/00 | Lubricating compositions characterised by the base- material being a non-macromolecular organic | | compounds and dicarboxylic acids only and having no free hydroxy or carboxyl |
| | compound [4, 2006.01] | | groups [4, 2006.01] |
| 105/02 | Well-defined hydrocarbons (petroleum fractions | 105/48 | • • • of carbonic acid [4, 2006.01] |
| | C10M 101/02) [4, 2006.01] | 105/50 | containing halogen [4, 2006.01] |
| 105/04 | aliphatic [4, 2006.01] | 105/52 | containing carbon, hydrogen and halogen |
| 105/06 | aromatic [4, 2006.01] | | only [4, 2006.01] |
| 105/08 | containing oxygen [4, 2006.01] | 105/54 | containing carbon, hydrogen, halogen and |
| 105/10 | having hydroxy groups bound to acyclic or | | oxygen [4, 2006.01] |
| | cycloaliphatic carbon atoms [4, 2006.01] | 105/56 | containing nitrogen [4, 2006.01] |
| 105/12 | • • • monohydroxy [4, 2006.01] | 105/58 | • • Amines, e.g. polyalkylene polyamines, quaternary |
| 105/14 | • • • polyhydroxy [4, 2006.01] | | amines (polyalkylene polyamines with eleven or |
| 105/16 | having hydroxy groups bound to a carbon atom of | 105 (60 | more monomer units C10M 107/44) [4, 2006.01] |
| | a six-membered aromatic ring [4, 2006.01] | 105/60 | • • having amino groups bound to an acyclic or |
| 105/18 | Ethers, e.g. epoxides [4, 2006.01] | 105 /63 | cycloaliphatic carbon atom [4, 2006.01] |
| 105/20 | Aldehydes; Ketones [4, 2006.01] | 105/62 | • • • containing hydroxy groups [4, 2006.01] |
| 105/22 | Carboxylic acids or their salts [4, 2006.01] | 105/64 | having amino groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] |
| 105/24 | having only one carboxyl group bound to an | 105/66 | • • • • containing hydroxy groups [4, 2006.01] |
| | acyclic carbon atom, cycloaliphatic carbon | 105/66 105/68 | Amides; Imides [4, 2006.01] |
| 105 /5 5 | atom or hydrogen [4, 2006.01] | 105/68 | Amides; finides [4, 2006.01]as ring hetero atom [4, 2006.01] |
| 105/26 | • • having more than one carboxyl group bound to | | |
| | an acyclic carbon atom or cycloaliphatic carbon | 105/72 | • containing sulfur, selenium or tellurium [4, 2006.01] |
| 105/20 | atom [4, 2006.01] | 105/74 | • containing phosphorus [4, 2006.01] |
| 105/28 | having only one carboxyl group bound to a carbon atom of a six-membered aromatic | 105/76 | • containing silicon [4, 2006.01] |
| | ring [4, 2006.01] | 105/78 | • containing boron [4, 2006.01] |
| 105/30 | • • having more than one carboxyl group bound to a carbon atom of a six-membered aromatic | 105/80 | containing atoms of elements not provided for in groups C10M 105/02-C10M 105/78 [4, 2006.01] |
| | ring [4, 2006.01] | 107/00 | Lubricating compositions characterised by the base- |
| 105/32 | • • Esters [4, 2006.01] | 107/00 | material being a macromolecular |
| 105/34 | • • • of monocarboxylic acids [4, 2006.01] | | compound [4, 2006.01] |
| 105/36 | • • • of polycarboxylic acids [4, 2006.01] | 107/02 | Hydrocarbon polymers; Hydrocarbon polymers |
| 105/38 | • • • of polyhydroxy compounds [4, 2006.01] | | modified by oxidation [4, 2006.01] |
| 105/40 | containing free hydroxy or carboxyl | 107/04 | • • Polyethene [4, 2006.01] |
| 100/40 | groups [4, 2006.01] | 107/06 | • • containing propene [4, 2006.01] |
| | 0 | 107/08 | containing butene [4, 2006.01] |

107/08 • • containing butene **[4, 2006.01]**

| 107/10 | containing aliphatic monomer having more than 4 carbon atoms [4, 2006.01] | 111/02 | at least one of them being a non-macromolecular organic compound [4, 2006.01] |
|------------------|--|-----------------|---|
| 107/12 | • • containing aromatic monomer, e.g. styrene [4, 2006.01] | 111/04 | at least one of them being a macromolecular organic compound [4, 2006.01] |
| 107/14 | containing conjugated diene [4, 2006.01] | 111/06 | at least one of them being a compound of the type |
| 107/16 | • • containing non-conjugated diene [4, 2006.01] | | covered by group C10M 109/00 [4, 2006.01] |
| 107/18 | Hydrocarbon polymers modified by oxidation [4, 2006.01] | | |
| 107/20 | containing oxygen (C10M 107/18 takes precedence) [4, 2006.01] | <u>Thickene</u> | |
| 107/22 | | | Note(s) [4] |
| | Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [4, 2006.01] | | In groups C10M 113/00-C10M 123/00, the following term is used with the meaning indicated: • "thickener" is an agent which solidifies |
| 107/24 107/26 | containing monomers having an unsaturated radical bound to an alcohol, aldehydo, ketonic, ether, ketal or acetal radical [4, 2006.01] containing monomers having an unsaturated | | other liquid components to form a grease. Solid lubricants consisting of solid components are classified in groups |
| 107/20 | containing monomers having an unsaturated radical bound to an acyloxy radical of a saturated carboxylic or carbonic | 117/00 | C10M 103/00-C10M 111/00. |
| 107/28 | acid [4, 2006.01] | 113/00 | Lubricating compositions characterised by the thickener being an inorganic material [4, 2006.01] |
| 10//20 | | 113/02 | • Carbon; Graphite [4, 2006.01] |
| | radical bound to a carboxyl radical, e.g. acrylate [4, 2006.01] | 113/04 | • Sulfur [4, 2006.01] |
| 107/20 | | 113/06 | Metals; Alloys [4, 2006.01] |
| 107/30 | Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon | 113/08 | Metal compounds [4, 2006.01] |
| | unsaturated bonds [4, 2006.01] | 113/10 | Clays; Micas [4, 2006.01] |
| 107/32 | Condensation polymers of aldehydes or | 113/12 | • Silica [4, 2006.01] |
| 10//32 | ketones; Polyesters; Polyethers [4, 2006.01] | 113/14 | • Glass [4, 2006.01] |
| 107/24 | | 113/16 | Inorganic material treated with organic compounds, |
| 107/34 | • • • • Polyoxyalkylenes [4, 2006.01] | 110, 10 | e.g. coated [4, 2006.01] |
| 107/36 | • • Polysaccharides, e.g. cellulose [4, 2006.01] | | S. S |
| 107/38 | • containing halogen [4, 2006.01] | 115/00 | Lubricating compositions characterised by the |
| 107/40 | containing nitrogen [4, 2006.01] | | thickener being a non-macromolecular organic |
| 107/42 | Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated | | compound other than a carboxylic acid or salt thereof [4, 2006.01] |
| | bonds [4, 2006.01] | 115/02 | Hydrocarbons (petroleum fractions |
| 107/44 | Macromolecular compounds obtained otherwise | | C10M 121/02) [4, 2006.01] |
| | than by reactions only involving carbon-to-carbon | 115/04 | containing oxygen [4, 2006.01] |
| | unsaturated bonds [4, 2006.01] | 115/06 | containing halogen [4, 2006.01] |
| 107/46 | containing sulfur [4, 2006.01] | 115/08 | containing nitrogen [4, 2006.01] |
| 107/48 | containing phosphorus [4, 2006.01] | 115/10 | containing sulfur [4, 2006.01] |
| 107/50 | containing silicon [4, 2006.01] | 115/12 | containing phosphorus [4, 2006.01] |
| 107/52 | containing boron [4, 2006.01] | 110/12 | containing phosphoras [i, 200001] |
| 107/54 | containing atoms of elements not provided for in groups C10M 107/02-C10M 107/52 [4, 2006.01] | 117/00 | Lubricating compositions characterised by the thickener being a non-macromolecular carboxylic |
| | | | acid or salt thereof [4, 2006.01] |
| 109/00 | Lubricating compositions characterised by the base- material being a compound of unknown or incompletely defined constitution (C10M 101/00 takes | 117/02 | having only one carboxyl group bound to an acyclic carbon atom, cycloaliphatic carbon atom or hydrogen [4, 2006.01] |
| | precedence) [4, 2006.01] | 117/04 | • • containing hydroxy groups [4, 2006.01] |
| 109/02 | Reaction products [4, 2006.01] Note(s) [2006.01] | 117/06 | having more than one carboxyl group bound to an acyclic carbon atom or cycloaliphatic carbon |
| | - · · · · · · · · · · · · · · · · · · · | | atom [4, 2006.01] |
| | When classifying in this group, any reactant of a reaction product which is considered to represent | 117/08 | having only one carboxyl group bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] |
| | information of interest for search, may also be classified in the last appropriate place in this subclass. This can, for example, be the case when it is considered of interest to enable searching of compositions using a | 117/10 | having more than one carboxyl group bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] |
| | combination of classification symbols. Such non- obligatory classification should be given as "additional information". | 119/00 | Lubricating compositions characterised by the thickener being a macromolecular compound [4, 2006.01] |
| 111/00 | Lubricating compositions characterised by the base- material being a mixture of two or more compounds | 119/02 | Hydrocarbons polymers; Hydrocarbon polymers modified by oxidation [4, 2006.01] |
| | covered by more than one of the main groups C10M 101/00-C10M 109/00, each of these | 119/04 | containing oxygen (hydrocarbon polymers modified by oxidation C10M 119/02) [4, 2006.01] |
| | compounds being essential [4, 2006.01] | | |

| 119/06 | Macromolecular compounds obtained by reactions | 125/12 | Metal carbonyls [4, 2006.01] |
|-----------------|---|---------|---|
| | only involving carbon-to-carbon unsaturated | 125/14 | Water (aqueous lubricating compositions containing |
| | bonds [4, 2006.01] | | more than 10% water C10M 173/00) [4, 2006.01] |
| 119/08 | containing monomers having an unsaturated | 125/16 | Hydrogen peroxide; Oxygenated water [4, 2006.01] |
| | radical bound to an alcohol, aldehydo, ketonic, | 125/18 | Compounds containing halogen [4, 2006.01] |
| 110/10 | ether, ketal or acetal radical [4, 2006.01] | 125/20 | Compounds containing nitrogen [4, 2006.01] |
| 119/10 | containing monomers having an unsaturated radical bound to an acyloxy radical of a | 125/22 | Compounds containing sulfur, selenium or |
| | saturated carboxylic or carbonic | | tellurium [4, 2006.01] |
| | acid [4, 2006.01] | 125/24 | Compounds containing phosphorus, arsenic or A 2006 011 |
| 119/12 | containing monomers having an unsaturated | 125 /26 | antimony [4, 2006.01] |
| | radical bound to a carboxyl radical, e.g. | 125/26 | Compounds containing silicon or boron, e.g. silica, sand [4, 2006.01] |
| | acrylate [4, 2006.01] | 125/28 | • • Glass [4, 2006.01] |
| 119/14 | Macromolecular compounds obtained otherwise | 125/20 | • • Clay [4, 2006.01] |
| | than by reactions only involving carbon-to-carbon | 120,00 | (iii) [i, 2000 (01] |
| 119/16 | unsaturated bonds [4, 2006.01]Condensation polymers of aldehydes or | 127/00 | Lubricating compositions characterised by the |
| 113/10 | ketones; Polyesters; Polyethers [4, 2006.01] | | additive being a non-macromolecular hydrocarbon |
| 119/18 | • • • • Polyoxyalkylenes [4, 2006.01] | 405/00 | (petroleum fractions C10M 159/04) [4, 2006.01] |
| 119/20 | Polysaccharides, e.g. cellulose [4, 2006.01] | 127/02 | • well-defined aliphatic [4, 2006.01] |
| 119/22 | containing halogen [4, 2006.01] | 127/04 | • well-defined aromatic [4, 2006.01] |
| 119/24 | • containing nitrogen [4, 2006.01] | 127/06 | • Alkylated aromatic hydrocarbons [4, 2006.01] |
| 119/26 | • containing sulfur [4, 2006.01] | 129/00 | Lubricating compositions characterised by the |
| 119/28 | • containing phosphorus [4, 2006.01] | 120,00 | additive being an organic non-macromolecular |
| 119/30 | containing atoms of elements not provided for in | | compound containing oxygen [4, 2006.01] |
| | groups C10M 119/02-C10M 119/28 [4, 2006.01] | 129/02 | having a carbon chain of less than 30 |
| 404 /00 | | | atoms [4, 2006.01] |
| 121/00 | Lubricating compositions characterised by the | 129/04 | Hydroxy compounds [4, 2006.01] |
| | thickener being a compound of unknown or incompletely defined constitution [4, 2006.01] | 129/06 | having hydroxy groups bound to acyclic or |
| 121/02 | Petroleum fractions, e.g. tars [4, 2006.01] | 120 /00 | cycloaliphatic carbon atoms [4, 2006.01] |
| 121/04 | • Reaction products [4, 2006.01] | 129/08 | • • • • containing at least 2 hydroxy groups [4, 2006.01] |
| , | • | 129/10 | • • having hydroxy groups bound to a carbon atom |
| | Note(s) [2006.01] | 123/10 | of a six-membered aromatic ring [4, 2006.01] |
| | When classifying in this group, any reactant of a | 129/12 | • • • with condensed rings [4, 2006.01] |
| | reaction product which is considered to represent | 129/14 | • • • containing at least 2 hydroxy |
| | information of interest for search, may also be classified | | groups [4, 2006.01] |
| | in the last appropriate place in this subclass. This can, for example, be the case when it is considered of | 129/16 | • • Ethers [4, 2006.01] |
| | interest to enable searching of compositions using a | 129/18 | • • • Epoxides [4, 2006.01] |
| | combination of classification symbols. Such non- | 129/20 | Cyclic ethers having 4 or more ring atoms, e.g. |
| | obligatory classification should be given as "additional | | furans, dioxolanes [4, 2006.01] |
| | information". | 129/22 | • • Peroxides; Ozonides [4, 2006.01] |
| 123/00 | Lubricating compositions characterised by the | 129/24 | • • Aldehydes; Ketones [4, 2006.01] |
| 1257 00 | thickener being a mixture of two or more compounds | 129/26 | Carboxylic acids; Salts thereof [4, 2006.01] |
| | covered by more than one of the main groups | 129/28 | • • • having carboxyl groups bound to acyclic or |
| | C10M 113/00-C10M 121/00, each of these | 129/30 | cycloaliphatic carbon atoms [4, 2006.01] • • • having 7 or less carbon atoms [4, 2006.01] |
| | compounds being essential (inorganic materials coated | 129/32 | • • • • monocarboxylic [4, 2006.01] |
| 122/02 | with organic compounds C10M 113/16) [4, 2006.01] | 129/34 | • • • • • polycarboxylic [4, 2006.01] |
| 123/02 | at least one of them being a non-macromolecular compound [4, 2006.01] | 129/34 | • • • • containing hydroxy groups [4, 2006.01] |
| 123/04 | at least one of them being a macromolecular | 129/38 | • • • • having 8 or more carbon atoms [4, 2006.01] |
| 125/04 | compound [4, 2006.01] | 129/40 | • • • • monocarboxylic [4, 2006.01] |
| 123/06 | at least one of them being a compound of the type | 129/42 | • • • • polycarboxylic [4, 2006.01] |
| | covered by group C10M 121/00 [4, 2006.01] | 129/44 | • • • • containing hydroxy groups [4, 2006.01] |
| | | 129/46 | • • • cycloaliphatic [4, 2006.01] |
| ٠ئەند 4 | - [4] | 129/48 | • • having carboxyl groups bound to a carbon atom |
| <u>Additive</u> | <u>S [4]</u> | | of a six-membered aromatic ring [4, 2006.01] |
| 125/00 | Lubricating compositions characterised by the | 129/50 | • • • monocarboxylic [4, 2006.01] |
| | additive being an inorganic material [4, 2006.01] | 129/52 | • • • polycarboxylic [4, 2006.01] |
| 125/02 | • Carbon; Graphite [4, 2006.01] | 129/54 | • • • containing hydroxy groups [4, 2006.01] |
| 125/04 | • Metals; Alloys [4, 2006.01] | 129/56 | Acids of unknown or incompletely defined |
| 125/06 | • Sulfur [4, 2006.01] | 400 (=0 | constitution [4, 2006.01] |
| 125/08 | Metal carbides or hydrides [4, 2006.01] | 129/58 | • • • Naphthenic acids [4, 2006.01] |
| 125/10 | Metal oxides, hydroxides, carbonates or | 129/60 | • • • • Tall oil acids [4, 2006.01] |
| | bicarbonates [4, 2006.01] | 129/62 | • • • • Rosin acids [4, 2006.01] |
| | | | |

| 129/64 | • • Acids obtained from polymerised unsaturated acids [4, 2006.01] | 133/12 | • • • having amino groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] |
|--|--|--|---|
| 129/66 | Epoxidised acids or esters [4, 2006.01] | 133/14 | • • • containing hydroxy groups [4, 2006.01] |
| 129/68 | • • Esters (epoxidised C10M 129/66) [4, 2006.01] | 133/16 | Amides; Imides [4, 2006.01] |
| 129/70 | • • • of monocarboxylic acids [4, 2006.01] | 133/18 | • • • of carbonic or haloformic acids [4, 2006.01] |
| 129/72 | • • • of polycarboxylic acids [4, 2006.01] | 133/20 | • • • Ureas; Semicarbazides; |
| 129/74 | • • • of polyhydroxy compounds [4, 2006.01] | | Allophanates [4, 2006.01] |
| 129/76 | containing free hydroxy or carboxyl | 133/22 | containing a carbon-to-nitrogen double bond, e.g. |
| | groups [4, 2006.01] | | guanidines, hydrazones, |
| 129/78 | Complex esters, i.e. compounds containing at | | semicarbazones [4, 2006.01] |
| | least three esterified carboxyl groups and | 133/24 | Nitriles [4, 2006.01] |
| | derived from the combination of at least three | 133/26 | containing a nitrogen-to-nitrogen double |
| | different types of the following five types of | | bond [4, 2006.01] |
| | compound: monohydroxy compounds, polyhydroxy compounds, monocarboxylic | 133/28 | • • • Azo compounds [4, 2006.01] |
| | acids, polycarboxylic acids, hydroxy carboxylic | 133/30 | • containing a nitrogen-to-oxygen bond [4, 2006.01] |
| | acids [4, 2006.01] | 133/32 | • • • containing a nitro group [4, 2006.01] |
| 129/80 | • • • derived from the combination of | 133/34 | • • containing a nitroso group [4, 2006.01] |
| 120,00 | monocarboxylic acids, dicarboxylic acids | 133/36 | • • • Hydroxylamines [4, 2006.01] |
| | and dihydroxy compounds only and having | 133/38 | Heterocyclic nitrogen compounds [4, 2006.01] |
| | no free hydroxy or carboxyl | 133/40 | Six-membered ring containing nitrogen and |
| | groups [4, 2006.01] | 100/10 | carbon only [4, 2006.01] |
| 129/82 | derived from the combination of | 133/42 | • • • Triazines [4, 2006.01] |
| | monohydroxy compounds, dihydroxy | 133/44 | • • • Five-membered ring containing nitrogen and |
| | compounds and dicarboxylic acids only and | 100/16 | carbon only [4, 2006.01] |
| | having no free hydroxy or carboxyl groups [4, 2006.01] | 133/46 | • • • • Imidazoles [4, 2006.01] |
| 129/84 | • • • of carbonic acid [4, 2006.01] | 133/48 | • • • the ring containing both nitrogen and |
| 129/86 | having a carbon chain of 30 or more | 133/50 | oxygen [4, 2006.01] • • • • Morpholines [4, 2006.01] |
| 123/00 | atoms [4, 2006.01] | 133/50 | having a carbon chain of 30 or more |
| 129/88 | Hydroxy compounds [4, 2006.01] | 133/32 | atoms [4, 2006.01] |
| 129/90 | having hydroxy groups bound to acyclic or | 133/54 | • • Amines [4, 2006.01] |
| | cycloaliphatic carbon atoms [4, 2006.01] | 133/56 | Amides; Imides [4, 2006.01] |
| 129/91 | · · | | |
| 123/31 | having hydroxy groups bound to a carbon atom | 133/58 | Heterocyclic compounds 14, 2006.011 |
| 123/31 | of a six-membered aromatic ring [4, 2006.01] | 133/58 | Heterocyclic compounds [4, 2006.01] |
| 129/92 | | 133/58 135/00 | Lubricating compositions characterised by the |
| | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or | | Lubricating compositions characterised by the additive being an organic non-macromolecular |
| 129/92 129/93 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] | | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or |
| 129/92 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom | 135/00 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] |
| 129/92 129/93 129/94 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] | 135/00 135/02 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] • Sulfurised compounds [4, 2006.01] |
| 129/92 129/93 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom | 135/00 135/02 135/04 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] • Sulfurised compounds [4, 2006.01] • Hydrocarbons [4, 2006.01] |
| 129/92 129/93 129/94 129/95 | of a six-membered aromatic ring [4, 2006.01] Carboxylic acids [4, 2006.01] having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] Esters [4, 2006.01] | 135/00 135/02 135/04 135/06 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] • Sulfurised compounds [4, 2006.01] • Hydrocarbons [4, 2006.01] |
| 129/92 129/93 129/94 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the | 135/00 135/02 135/04 135/06 135/08 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] • Sulfurised compounds [4, 2006.01] • Hydrocarbons [4, 2006.01] • Esters, e.g. fats [4, 2006.01] • containing a sulfur-to-oxygen bond [4, 2006.01] |
| 129/92 129/93 129/94 129/95 | of a six-membered aromatic ring [4, 2006.01] Carboxylic acids [4, 2006.01] having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] Esters [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular | 135/00 135/02 135/04 135/06 135/08 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives |
| 129/92 129/93 129/94 129/95 131/00 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/08 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/08 131/10 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/10 131/12 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/08 131/10 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiourea type, i.e. containing the group |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/12 131/14 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] containing a sulfur-to-oxygen bond [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sun-C-NK [4, 2006.01] thiocarbamic type, e.g. containing the groups Sun-C-S- or N-C-O- [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/10 131/12 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiocarbon to-sulfur double bond [4, 2006.01] Thiols; Sulfides; Polysulfides [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/12 131/14 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiourea carbon-to-sulfur double bond [4, 2006.01] Thiols; Sulfides; Polysulfides [4, 2006.01] Thiols; Sulfides; Polysulfides [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/12 131/14 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/18 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group N-C-NK |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/08 131/10 131/12 131/14 133/00 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group N-C-NK |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/08 131/10 131/12 131/14 133/00 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] • having a carbon chain of less than 30 atoms [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/18 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiourea carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] Thiolos; Sulfides; Polysulfides [4, 2006.01] containing sulfur atoms bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] containing hydroxy groups; Derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/08 131/10 131/12 131/14 133/00 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] • having a carbon chain of less than 30 atoms [4, 2006.01] • Amines, e.g. polyalkylene polyamines; Quaternary amines (polyalkylene polyamines with eleven or | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/18 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group N-C-NK |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/12 131/14 133/00 133/02 133/04 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] • having a carbon chain of less than 30 atoms [4, 2006.01] • Amines, e.g. polyalkylene polyamines; Quaternary amines (polyalkylene polyamines with eleven or more monomer units C10M 149/22) [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/18 135/20 135/22 135/24 135/26 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Sulfonic acids [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiourea carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] Thiolos; Sulfides; Polysulfides [4, 2006.01] containing sulfur atoms bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] containing hydroxy groups; Derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/08 131/10 131/12 131/14 133/00 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] • having a carbon chain of less than 30 atoms [4, 2006.01] • Amines, e.g. polyalkylene polyamines; Quaternary amines (polyalkylene polyamines with eleven or more monomer units C10M 149/22) [4, 2006.01] • having amino groups bound to acyclic or | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/18 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Sulfonic acids [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiocarbanic type, e.g. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] Thiolos; Sulfides; Polysulfur double bond [4, 2006.01] Thiols; Sulfides; Polysulfides [4, 2006.01] containing sulfur atoms bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] containing hydroxy groups; Derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/10 131/12 131/14 133/00 133/02 133/04 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] • having a carbon chain of less than 30 atoms [4, 2006.01] • Amines, e.g. polyalkylene polyamines; Quaternary amines (polyalkylene polyamines with eleven or more monomer units C10M 149/22) [4, 2006.01] • having amino groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/18 135/20 135/22 135/24 135/26 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Sulfonic acids [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiocarbon [4, 2006.01] Thiologyanates; Derivatives thereof [4, 2006.01] Thiologyanates; Derivatives thereof [4, 2006.01] containing type, e.g. containing the groups Sulfides; Polysulfides [4, 2006.01] containing sulfur atoms bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] containing hydroxy groups; Derivatives thereof [4, 2006.01] containing carboxyl groups; Derivatives thereof [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/06 131/08 131/10 131/12 131/14 133/00 133/02 133/04 133/06 133/08 | of a six-membered aromatic ring [4, 2006.01] Carboxylic acids [4, 2006.01] having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] containing carbon, hydrogen and halogen only [4, 2006.01] aromatic [4, 2006.01] aromatic [4, 2006.01] containing carbon, hydrogen, halogen and oxygen [4, 2006.01] Acids; Salts or esters thereof [4, 2006.01] Acids; Salts or esters thereof [4, 2006.01] Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] having a carbon chain of less than 30 atoms [4, 2006.01] Amines, e.g. polyalkylene polyamines; Quaternary amines (polyalkylene polyamines with eleven or more monomer units C10M 149/22) [4, 2006.01] having amino groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/20 135/22 135/24 135/26 135/28 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group Sulfonic acids or derivatives thereof [4, 2006.01] thiocarbamic type, e.g. containing the group Sulfonic acycle or No-Co-O [4, 2006.01] Thiols; Sulfides; Polysulfides [4, 2006.01] containing sulfur atoms bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] containing hydroxy groups; Derivatives thereof [4, 2006.01] containing carboxyl groups; Derivatives thereof [4, 2006.01] containing sulfur atoms bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] |
| 129/92 129/93 129/94 129/95 131/00 131/02 131/04 131/08 131/10 131/12 131/14 133/00 133/02 133/04 | of a six-membered aromatic ring [4, 2006.01] • Carboxylic acids [4, 2006.01] • having carboxyl groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] • having carboxyl groups bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] • Esters [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing halogen [4, 2006.01] • containing carbon, hydrogen and halogen only [4, 2006.01] • aliphatic [4, 2006.01] • aromatic [4, 2006.01] • containing carbon, hydrogen, halogen and oxygen [4, 2006.01] • Alcohols; Ethers; Aldehydes; Ketones [4, 2006.01] • Acids; Salts or esters thereof [4, 2006.01] • Halogenated waxes [4, 2006.01] Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing nitrogen [4, 2006.01] • having a carbon chain of less than 30 atoms [4, 2006.01] • Amines, e.g. polyalkylene polyamines; Quaternary amines (polyalkylene polyamines with eleven or more monomer units C10M 149/22) [4, 2006.01] • having amino groups bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] | 135/00 135/02 135/04 135/06 135/08 135/10 135/12 135/14 135/16 135/20 135/22 135/24 135/26 135/28 | Lubricating compositions characterised by the additive being an organic non-macromolecular compound containing sulfur, selenium or tellurium [4, 2006.01] Sulfurised compounds [4, 2006.01] Hydrocarbons [4, 2006.01] Esters, e.g. fats [4, 2006.01] Sulfonic acids or derivatives thereof [4, 2006.01] Thio-acids; Thiocyanates; Derivatives thereof [4, 2006.01] having a carbon-to-sulfur double bond [4, 2006.01] thiourea type, i.e. containing the group S N-C-NK [4, 2006.01] thiocarbamic type, e.g. containing the groups S N-C-S- or N-C-O- [4, 2006.01] Thiols; Sulfides; Polysulfides [4, 2006.01] containing sulfur atoms bound to acyclic or cycloaliphatic carbon atoms [4, 2006.01] containing hydroxy groups; Derivatives thereof [4, 2006.01] containing carboxyl groups; Derivatives thereof [4, 2006.01] containing sulfur atoms bound to a carbon atom of a six-membered aromatic ring [4, 2006.01] containing hydroxy groups; Derivatives |

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| 135/32 | Heterocyclic sulfur, selenium or tellurium compounds [4, 2006.01] | 145/00 | Lubricating compositions characterised by the additive being a macromolecular compound |
|----------|---|----------|--|
| 135/34 | the ring containing sulfur and carbon only [4, 2006.01] | | containing oxygen (oxidised hydrocarbons C10M 143/18) [4, 2006.01] |
| 135/36 | the ring containing sulfur and carbon with nitrogen or oxygen [4, 2006.01] | 145/02 | Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [4, 2006.01] |
| 137/00 | Lubricating compositions characterised by the | 145/04 | |
| 137/00 | additive being an organic non-macromolecular compound containing phosphorus [4, 2006.01] | 145/04 | containing monomers having an unsaturated radical bound to an alcohol, aldehydo, ketonic, ether, ketal or acetal radical [4, 2006.01] |
| 137/02 | having no phosphorus-to-carbon bond [4, 2006.01] | 145/06 | containing monomers having an unsaturated |
| 137/04 | • • Phosphate esters [4, 2006.01] | | radical bound to an acyloxy radical of a saturated |
| 137/06 | • • • Metal salts [4, 2006.01] | | carboxylic or carbonic acid [4, 2006.01] |
| 137/08 | • • • Ammonium or amine salts [4, 2006.01] | 145/08 | Vinyl esters of a saturated carboxylic or |
| 137/10 | • • • Thio derivatives [4, 2006.01] | | carbonic acid [4, 2006.01] |
| 137/12 | having a phosphorus-to-carbon bond [4, 2006.01] | 145/10 | containing monomers having an unsaturated |
| 137/12 | • containing sulfur [4, 2006.01] | | radical bound to a carboxyl radical, e.g. |
| | | | acrylate [4, 2006.01] |
| 137/16 | having a phosphorus-to-nitrogen bond [4, 2006.01] | 145/12 | • • • monocarboxylic [4, 2006.01] |
| 139/00 | Lubricating compositions characterised by the | 145/14 | • • • • Acrylate; Methacrylate [4, 2006.01] |
| 1557 00 | additive being an organic non-macromolecular | 145/16 | • • • polycarboxylic [4, 2006.01] |
| | compound containing atoms of elements not | 145/18 | Macromolecular compounds obtained otherwise than |
| | provided for in groups C10M 127/00- | 2.0, 20 | by reactions only involving carbon-to-carbon |
| | C10M 137/00 [4, 2006.01] | | unsaturated bonds [4, 2006.01] |
| 139/02 | Esters of silicon acids [4, 2006.01] | 145/20 | Condensation polymers of aldehydes or |
| 139/04 | having a silicon-to-carbon bond, e.g. | , | ketones [4, 2006.01] |
| | silanes [4, 2006.01] | 145/22 | • • Polyesters [4, 2006.01] |
| 139/06 | having a metal-to-carbon bond (metal complexes of | 145/24 | • • Polyethers [4, 2006.01] |
| | unknown constitution C10M 159/18) [4, 2006.01] | 145/26 | • • • Polyoxyalkylenes [4, 2006.01] |
| | | 145/28 | • • • of alkylene oxides containing 2 carbon |
| 141/00 | Lubricating compositions characterised by the | 1.0, 20 | atoms only [4, 2006.01] |
| | additive being a mixture of two or more compounds | 145/30 | • • • of alkylene oxides containing 3 carbon |
| | covered by more than one of the main groups | , | atoms only [4, 2006.01] |
| | C10M 125/00-C10M 139/00, each of these | 145/32 | • • • of alkylene oxides containing 4 or more |
| 1.41./00 | compounds being essential [4, 2006.01] | , | carbon atoms [4, 2006.01] |
| 141/02 | at least one of them being an organic oxygen- containing compound [4, 2006.01] | 145/34 | • • • of two or more specified different types [4, 2006.01] |
| 141/04 | at least one of them being an organic halogen- | 145/36 | • • • • etherified [4, 2006.01] |
| 4.44.400 | containing compound [4, 2006.01] | 145/38 | • • • • esterified [4, 2006.01] |
| 141/06 | at least one of them being an organic nitrogen- containing compound [4, 2006.01] | 145/40 | Polysaccharides, e.g. cellulose [4, 2006.01] |
| 141/08 | • at least one of them being an organic sulfur-, | | , and a second s |
| 141/00 | selenium- or tellurium-containing compound [4, 2006.01] | 147/00 | Lubricating compositions characterised by the additive being a macromolecular compound |
| 141/10 | at least one of them being an organic phosphorus- | 4.47.700 | containing halogen [4, 2006.01] |
| 141/12 | containing compound [4, 2006.01] • at least one of them being an organic compound | 147/02 | Monomer containing carbon, hydrogen and halogen only [4, 2006.01] |
| 141/12 | containing atoms of elements not provided for in | 147/04 | Monomer containing carbon, hydrogen, halogen and oxygen [4, 2006.01] |
| | groups C10M 141/02-C10M 141/10 [4, 2006.01] | | 0xygen [4, 2000.01] |
| 143/00 | Lubricating composition characterized by the | 149/00 | Lubricating compositions characterised by the |
| 143/00 | Lubricating composition characterised by the additive being a macromolecular hydrocarbon or such hydrocarbon modified by oxidation [4, 2006.01] | | additive being a macromolecular compound containing nitrogen [4, 2006.01] |
| 143/02 | • Polyethene [4, 2006.01] | 149/02 | Macromolecular compounds obtained by reactions |
| 143/04 | • containing propene [4, 2006.01] | | only involving carbon-to-carbon unsaturated |
| | ~ . | | bonds [4, 2006.01] |
| 143/06 | • containing butene [4, 2006.01] | 149/04 | containing monomers having an unsaturated |
| 143/08 | containing aliphatic monomer having more than 4 carbon atoms [4, 2006.01] | 149/06 | radical bound to an amino group [4, 2006.01]containing monomers having an unsaturated |
| 143/10 | containing aromatic monomer, e.g. styrene [4, 2006.01] | 143/00 | radical bound to an amido or imido |
| 143/12 | • containing conjugated diene [4, 2006.01] | 1.40./00 | group [4, 2006.01] |
| 143/14 | • containing non-conjugated diene [4, 2006.01] | 149/08 | containing monomers having an unsaturated radical bound to a nitrile group [4, 2006.01] |
| 143/16 | • containing cycloaliphatic monomer [4, 2006.01] | 149/10 | containing monomers having an unsaturated |
| 143/18 | Oxidised hydrocarbons, i.e. oxidised subsequent to macromolecular formation [4, 2006.01] | 145/10 | radical bound to a nitrogen-containing hetero ring [4, 2006.01] |
| | • / • | | U. / . |

| 149/12 | Macromolecular compounds obtained otherwise than | | Note(s) [2006.01] |
|---------|---|------------------|--|
| | by reactions only involving carbon-to-carbon unsaturated bonds [4, 2006.01] | | When classifying in this group, any reactant of a |
| 149/14 | a condensation reaction being | | reaction product which is considered to represent information of interest for search, may also be classified |
| | involved [4, 2006.01] | | in the last appropriate place in this subclass. This can, |
| 149/16 | • • • between the nitrogen-containing monomer and | | for example, be the case when it is considered of |
| 149/18 | an aldehyde or ketone [4, 2006.01] • • • Polyamides [4, 2006.01] | | interest to enable searching of compositions using a combination of classification symbols. Such non- |
| 149/20 | • • • Polyureas [4, 2006.01] | | obligatory classification should be given as "additional |
| 149/22 | • • • Polyamines [4, 2006.01] | | information". |
| 454 (00 | | 159/14 | obtained by Friedel-Crafts 14.2006.011 |
| 151/00 | Lubricating compositions characterised by the additive being a macromolecular compound | 159/16 | condensation [4, 2006.01] obtained by Mannich reactions [4, 2006.01] |
| | containing sulfur, selenium or tellurium [4, 2006.01] | 159/18 | Complexes with metals [4, 2006.01] |
| 151/02 | Macromolecular compounds obtained by reactions | 159/20 | Reaction mixtures having an excess of neutralising |
| | involving only carbon-to-carbon unsaturated | | base, e.g. so-called overbasic or highly basic |
| 151/04 | bonds [4, 2006.01]Macromolecular compounds obtained otherwise than | 450 (00 | products [4, 2006.01] |
| 131/04 | by reactions only involving carbon-to-carbon | 159/22 159/24 | containing phenol radicals [4, 2006.01]containing sulfonic radicals [4, 2006.01] |
| | unsaturated bonds [4, 2006.01] | 159/24 | Containing suitonic radicals [4, 2006.01] |
| 153/00 | Lubricating compositions characterized by the | 161/00 | Lubricating compositions characterised by the |
| 133/00 | Lubricating compositions characterised by the additive being a macromolecular compound | | additive being a mixture of a macromolecular |
| | containing phosphorus [4, 2006.01] | | compound and a non-macromolecular compound, each of these compounds being essential [4, 2006.01] |
| 153/02 | Macromolecular compounds obtained by reactions | | - |
| | involving only carbon-to-carbon unsaturated bonds [4, 2006.01] | 163/00 | Lubricating compositions characterised by the |
| 153/04 | Macromolecular compounds obtained otherwise than | | additive being a mixture of a compound of unknown or incompletely defined constitution and a non- |
| | by reactions only involving carbon-to-carbon | | macromolecular compound, each of these |
| | unsaturated bonds [4, 2006.01] | | compounds being essential [4, 2006.01] |
| 155/00 | Lubricating compositions characterised by the | 165/00 | Lubricating compositions characterised by the |
| | additive being a macromolecular compound | | additive being a mixture of a macromolecular |
| | containing atoms of elements not provided for in groups C10M 143/00-C10M 153/00 [4, 2006.01] | | compound and a compound of unknown or incompletely defined constitution, each of these |
| 155/02 | Monomer containing silicon [4, 2006.01] | | compounds being essential [4, 2006.01] |
| 155/04 | Monomer containing boron [4, 2006.01] | | |
| 4== /00 | | 167/00 | Lubricating compositions characterised by the additive being a mixture of a macromolecular |
| 157/00 | Lubricating compositions characterised by the additive being a mixture of two or more | | compound, a non-macromolecular compound and a |
| | macromolecular compounds covered by more than | | compound of unknown or incompletely defined |
| | one of the main groups C10M 143/00-C10M 155/00, | | constitution, each of these compounds being essential [4, 2006.01] |
| 157/00 | each of these compounds being essential [4, 2006.01] | | essential [4, 2000.01] |
| 157/02 | at least one of them being a halogen-containing compound [4, 2006.01] | | |
| 157/04 | at least one of them being a nitrogen-containing | <u>Mixtures</u> | of base-materials, thickeners and additives [4] |
| | compound [4, 2006.01] | 169/00 | Lubricating compositions characterised by |
| 157/06 | • at least one of them being a sulfur-, selenium- or | | containing as components a mixture of at least two |
| 157/08 | tellurium-containing compound [4, 2006.01]at least one of them being a phosphorus-containing | | types of ingredient selected from base-materials, |
| 13//00 | compound [4, 2006.01] | | thickeners or additives, covered by the preceding groups, each of these compounds being |
| 157/10 | at least one of them being a compound containing | | essential [4, 2006.01] |
| | atoms of elements not provided for in groups | | |
| | C10M 157/02-C10M 157/08 [4, 2006.01] | 160/02 | Mintures of base metarials and |
| 159/00 | Lubricating compositions characterised by the | 169/02 | Mixtures of base-materials and thickeners [4, 2006.01] |
| | additive being of unknown or incompletely defined | 169/04 | Mixtures of base-materials and additives [4, 2006.01] |
| | constitution (carboxylic acids with less than 30 carbon atoms in the chain, of unknown or incompletely defined | 169/06 | Mixtures of thickeners and additives [4, 2006.01] |
| | constitution C10M 129/56) [4, 2006.01] | | |
| 159/02 | • Natural products [4, 2006.01] | | |
| 159/04 | Petroleum fractions, e.g. tars, | | |
| 150 /00 | solvents [4, 2006.01] | | |
| 159/06 | Waxes, e.g. ozocerite, ceresine, petrolatum or slack-wax [4, 2006.01] | | |
| 159/08 | • • Fatty oils [4, 2006.01] | | |
| 159/10 | • • Rubber [4, 2006.01] | | |
| 159/12 | Reaction products [4, 2006.01] | | |

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159/12 • Reaction products **[4, 2006.01]**

Compositions characterised by physical properties [4]

171/00

Lubricating compositions characterised by purely physical criteria, e.g. containing as base-material, thickener or additive, ingredients which are characterised exclusively by their numerically specified physical properties, i.e. containing ingredients which are physically well defined but for which the chemical nature is either unspecified or only very vaguely indicated (chemically defined ingredients C10M 101/00-C10M 169/00; petroleum fractions C10M 101/02, C10M 121/02, C10M 159/04) [4, 2006.01]

171/02

 Specified values of viscosity or viscosity index [4, 2006.01]

171/04

Specified molecular weight or molecular weight distribution [4, 2006.01]

171/06

• Particles of special shape or size [4, 2006.01]

Aqueous lubricating compositions [4]

173/00

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Lubricating compositions containing more than 10% water [4, 2006.01]

• not containing mineral or fatty oils [4, 2006.01]

Working-up [4]

175/00 W

Working-up used lubricants to recover useful products [4, 2006.01]

175/02

• mineral-oil based [4, 2006.01]

175/04

• aqueous emulsion based [4, 2006.01]

175/06

• by ultrafiltration or osmosis [4, 2006.01]

Preparation or after-treatment [4]

177/00 Special methods of preparation of lubricating compositions; Chemical modification by after-treatment of components or of the whole of a lubricating composition, not covered by other classes [4, 2006.01]