

Title (en)

LUBRICATING OIL COMPOSITION FOR INDUSTRIAL MACHINERY AND EQUIPMENT

Title (de)

SCHMIERÖLZUSAMMENSETZUNG FÜR INDUSTRIEMASCHINEN UND -GERÄTE

Title (fr)

COMPOSITION D'HUILE DE LUBRIFICATION POUR MACHINES ET ÉQUIPEMENTS INDUSTRIELS

Publication

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Application

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- JP 2004108503 A 20040331
- JP 2004106674 A 20040331
- JP 2004108180 A 20040331
- JP 2004106670 A 20040331
- JP 2004108178 A 20040331
- JP 2004106664 A 20040331
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Abstract (en)

[origin: EP1734103A1] A lubricative composition for industrial machinery and equipment which comprises a base oil selected from among mineral oils, fats and oils, synthetic oils and mixture of two or more of them, and at least one additive selected from among the following components (A) to (D): component (A): (A-1) a phosphorus-containing carboxylic acid and/or (A-2) a thiophosphoric ester, component (B): a dispersant viscosity index improver, component (C): (C-1) a specific amidocarboxylic acid compound and/or (C-2) a specific carboxylic acid compound, and component (D): an ester oiliness improver. The composition is favorable as a lubricating oil composition and useful as a gear oil composition, a lubricating oil composition for paper machines or a lubricating oil composition for slide guides, a hydraulic oil, or the like.

IPC 8 full level

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Citation (search report)

- [X] US 5759965 A 19980602 - SUMIEJSKI JAMES L [US]
- See references of WO 2005093020A1

Cited by

WO2011035865A1; EP2305782A1; EP2746372A1; EP2746371A1; EP2746373A3; EP2767577A1; US9279094B2; EP2746374A3; EP2980194A4;
US2020172826A1; WO2011070141A3; US9499763B2; US8969267B2; US9499761B2; US9249371B2; US9499764B2; US9499762B2;
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