

Title (en)

HIGH TEMPERATURE BIOBASED LUBRICANT COMPOSITIONS COMPRISING BORON NITRIDE

Title (de)

BORNITRID ENTHALTENDE HOCHTEMPERATURSCHMIERMITTEL AUF BIOBASIS

Title (fr)

COMPOSITIONS DE LUBRIFIANTS BIO AUX TEMPERATURES ELEVEES COMPRENANT LE NITRURE DE BORE

Publication

EP 1877528 A1 20080116 (EN)

Application

EP 06751491 A 20060426

Priority

- US 2006015820 W 20060426
- US 67512605 P 20050426

Abstract (en)

[origin: WO2006116502A1] This present invention discloses a method for the preparation of an improved high temperature engine lubricant composition comprising the steps of: 1) providing at least one biobased natural oil or biobased synthetic oil selected from the group consisting of natural or synthetic vegetable oil, natural or synthetic animal oil, genetically modified vegetable oil, genetically modified synthetic vegetable oil, natural or synthetic tree oil, and mixtures thereof; 2) providing at least one boron nitride; and 3) optionally, providing at least one base oil selected from the group consisting of a synthetic ester, solvent refined petroleum oil, a hydrocracked petroleum white oil, an all hydroprocessed synthetic oil, Fischer Tropsch oil, petroleum oil group I, group II, group III, a polyalphaolefin (PAO), and mixtures thereof; 4) optionally, providing at least one additive or combination of additives selected from the group consisting of anti-oxidant(s), corrosion inhibitor(s), metal deactivator(s), viscosity modifier(s), anti-wear inhibitor(s), friction modifier(s), and extreme pressure agent(s); 5) blending 1), 2), 3), and 4) in any sequence to form said composition.

IPC 8 full level

C10M 169/04 (2006.01)

CPC (source: EP US)

C10M 169/04 (2013.01 - EP US); **C10M 2201/061** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2205/0206** (2013.01 - EP US); **C10M 2205/173** (2013.01 - EP US); **C10M 2207/2805** (2013.01 - EP US); **C10M 2207/401** (2013.01 - EP US); **C10M 2207/4045** (2013.01 - EP US); **C10N 2020/065** (2020.05 - EP US); **C10N 2020/067** (2020.05 - EP US)

Citation (search report)

See references of WO 2006116502A1

Citation (examination)

A.F. HOLLEMANN, E. WIBERG: "Lehrbuch der Anorganischen Chemie", 1985, DE GRUYTER, Berlin, New York, ISBN: 3-11-007511-3, pages: 857 - 859

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006116502 A1 20061102; AU 2006241193 A1 20061102; AU 2006241193 B2 20110428; BR PI0610628 A2 20100713; BR PI0610628 A8 20160308; CA 2609652 A1 20061102; CA 2609652 C 20130910; CN 101218331 A 20080709; CN 101218331 B 20130424; EP 1877528 A1 20080116; US 2010105583 A1 20100429; ZA 200709214 B 20081029

DOCDB simple family (application)

US 2006015820 W 20060426; AU 2006241193 A 20060426; BR PI0610628 A 20060426; CA 2609652 A 20060426; CN 200680014119 A 20060426; EP 06751491 A 20060426; US 41216406 A 20060426; ZA 200709214 A 20071025