

Title (en)

POLYALKYLENE SUCCINIMIDE COMPOSITION USEFUL IN INTERNAL COMBUSTION ENGINES

Title (de)

POLYALKYLENSUCCINIMID-ZUSAMMENSETZUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)

COMPOSITION A BASE DE POLYALKYLENE SUCCINIMIDE DESTINEE AUX MOTEURS A COMBUSTION INTERNE

Publication

**EP 1019466 A1 20000719 (EN)**

Application

**EP 98949715 A 19980930**

Priority

- JP 28466697 A 19971001
- US 9820715 W 19980930
- US 1580198 A 19980129

Abstract (en)

[origin: WO9916852A1] A lubricating oil composition for internal combustion engines is preferably composed of a major portion of a base oil; 0.5 % to 15 % of a cyclic carbonate-treated polyalkylene succinimide additive; 0.5 % to 15 % of a borated polyalkylene succinimide additive; 0.5 % to 20 % of a metal-containing detergent; and 0.1 % to 3 % of a zinc dialkyldithiophosphate, other additives such as a molybdenum compound, an oxidation inhibitor and a viscosity index improver can be added. The molecular weight of the polyalkylenes from which the carbonated polyalkylene succinimide is derived is preferably at least 300 greater than the molecular weight of the polyalkylenes from which the borated polyalkylene succinimide is derived.

IPC 1-7

**C10M 141/12; C10M 133/56**

IPC 8 full level

**C08F 8/00** (2006.01); **C10M 133/56** (2006.01); **C10M 141/10** (2006.01); **C10M 163/00** (2006.01)

CPC (source: EP)

**C08F 8/00** (2013.01); **C08F 8/32** (2013.01); **C08F 8/42** (2013.01); **C08F 8/48** (2013.01); **C10M 129/10** (2013.01); **C10M 129/54** (2013.01); **C10M 129/58** (2013.01); **C10M 133/56** (2013.01); **C10M 135/10** (2013.01); **C10M 137/10** (2013.01); **C10M 141/10** (2013.01); **C10M 159/20** (2013.01); **C10M 159/22** (2013.01); **C10M 159/24** (2013.01); **C10M 163/00** (2013.01); **C10M 2207/023** (2013.01); **C10M 2207/026** (2013.01); **C10M 2207/027** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/144** (2013.01); **C10M 2207/146** (2013.01); **C10M 2207/16** (2013.01); **C10M 2207/26** (2013.01); **C10M 2207/262** (2013.01); **C10M 2215/04** (2013.01); **C10M 2215/086** (2013.01); **C10M 2215/26** (2013.01); **C10M 2215/28** (2013.01); **C10M 2217/046** (2013.01); **C10M 2217/06** (2013.01); **C10M 2219/044** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/087** (2013.01); **C10M 2219/088** (2013.01); **C10M 2219/089** (2013.01); **C10M 2223/045** (2013.01); **C10M 2227/00** (2013.01); **C10M 2227/06** (2013.01); **C10M 2227/061** (2013.01); **C10M 2227/062** (2013.01); **C10M 2227/063** (2013.01); **C10M 2227/065** (2013.01); **C10M 2227/066** (2013.01); **C10M 2227/09** (2013.01); **C10N 2010/04** (2013.01); **C10N 2010/12** (2013.01); **C10N 2040/25** (2013.01); **C10N 2040/251** (2020.05); **C10N 2040/255** (2020.05); **C10N 2040/28** (2013.01); **C10N 2070/02** (2020.05)

Citation (search report)

See references of WO 9916852A1

Cited by

WO2006117215A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 9916852 A1 19990408;** CA 2305637 A1 19990408; EP 1019466 A1 20000719

DOCDB simple family (application)

**US 9820715 W 19980930;** CA 2305637 A 19980930; EP 98949715 A 19980930