

Title (en)  
STABILISED IMIDE GRAFT OF ETHYLENE COPOLYMERIC ADDITIVES FOR LUBRICANTS, PROCESS FOR THEIR PREPARATION, PROCESS FOR STABILISING ADDITIVE CONCENTRATES FOR LUBRICANTS BASED ON THE IMIDE GRAFT ETHYLENE COPOLYMER AND LUBRICATING OIL COMPOSITIONS COMPRISING THE STABILISED ADDITIVE

Publication  
**EP 0000648 B1 19820421 (EN)**

Application  
**EP 78300173 A 19780720**

Priority  
US 81984677 A 19770728

Abstract (en)  
[origin: EP0000648A1] Oil-soluble, derivatized ethylene copolymers used as additives for lubricants, derived from about 2 to 98 weight % ethylene, and one or more C3 to C28 alpha-olefins, e.g. propylene, which are grafted in the presence of a high-temperature decomposable free-radical initiator, with an ethylenically-unsaturated dicarboxylic acid material and thereafter reacted with a polyamine having at least two primary amine groups, e.g. an alkylene polyamine such as diethylene triamine, to form carboxyl-grafted polymeric imide derivatives are subsequently reacted with an anhydride of a C1-C30 hydrocarbyl-substituted acid, preferably acetic anhydride, to yield an oil-soluble stable amide of said polyamine. The oil solutions of said amide derivative are characterized by minimal viscosity change over an extended period of time.

IPC 1-7  
**C08F 8/10**; C08F 8/32; C08F 255/00; C10M 1/36

IPC 8 full level  
**C10M 159/12** (2006.01); **C08F 8/00** (2006.01); **C10M 143/02** (2006.01); **C10M 149/18** (2006.01); **C10M 151/04** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 40/25** (2006.01); **C10N 70/00** (2006.01)

CPC (source: EP US)  
**C08F 8/00** (2013.01 - EP US); **C10M 143/02** (2013.01 - EP US); **C10M 2215/04** (2013.01 - EP US); **C10M 2215/08** (2013.01 - EP US); **C10M 2215/082** (2013.01 - EP US); **C10M 2215/086** (2013.01 - EP US); **C10M 2215/22** (2013.01 - EP US); **C10M 2215/221** (2013.01 - EP US); **C10M 2215/224** (2013.01 - EP US); **C10M 2215/225** (2013.01 - EP US); **C10M 2215/226** (2013.01 - EP US); **C10M 2215/26** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2215/30** (2013.01 - EP US); **C10M 2217/046** (2013.01 - EP US); **C10M 2217/06** (2013.01 - EP US)

C-Set (source: EP US)  
**C08F 8/00 + C08F 255/00**

Cited by  
EP0558047A3; FR2449122A1; GB2140811A; FR2460993A1; EP0396297A3; EP0510892A1; EP1533293A3; US8603954B2; US10190070B2; US8703872B2; US8703873B2; US7371713B2; US7981847B2; US8263537B2; US7514393B2

Designated contracting state (EPC)  
BE DE FR GB

DOCDB simple family (publication)  
**EP 0000648 A1 19790207**; **EP 0000648 B1 19820421**; AU 3764778 A 19800103; AU 521057 B2 19820311; BR 7804856 A 19790313; CA 1118548 A 19820216; DE 2861753 D1 19820603; IT 1097229 B 19850826; IT 7825666 A0 19780713; JP S5425903 A 19790227; JP S629158 B2 19870226; US 4137185 A 19790130

DOCDB simple family (application)  
**EP 78300173 A 19780720**; AU 3764778 A 19780630; BR 7804856 A 19780727; CA 306169 A 19780626; DE 2861753 T 19780720; IT 2566678 A 19780713; JP 9166978 A 19780728; US 81984677 A 19770728