

Title (en)
POLYESTERS AS FLOW IMPROVERS FOR HYDROCARBONS

Publication
EP 0183447 B1 19900314 (EN)

Application
EP 85308322 A 19851114

Priority
GB 8428880 A 19841115

Abstract (en)
[origin: EP0183447A1] A polymer or copolymer of weight average molecular weight from 1000 to 200,000 prepared from an ethylenically unsaturated ester and containing from 0.1 to 50% by weight of polyoxyalkylene groups of molecular weight from 100 to 5000 is used to improve the cold flow properties of liquid hydrocarbon especially distillate fuels and has improved interaction with other additives.

IPC 1-7
C10L 1/14; C10L 1/18

IPC 8 full level
C08L 67/00 (2006.01); **C08F 20/18** (2006.01); **C08F 220/10** (2006.01); **C08F 299/02** (2006.01); **C08L 7/00** (2006.01); **C08L 21/00** (2006.01); **C08L 23/00** (2006.01); **C08L 33/00** (2006.01); **C08L 33/02** (2006.01); **C08L 67/06** (2006.01); **C08L 101/00** (2006.01); **C10L 1/14** (2006.01); **C10L 1/18** (2006.01); **C10L 1/192** (2006.01); **C10L 1/195** (2006.01); **C10L 1/198** (2006.01); **C10L 1/22** (2006.01)

CPC (source: EP)
C10L 1/143 (2013.01); **C10L 1/192** (2013.01); **C10L 1/1985** (2013.01); **C10L 1/1963** (2013.01); **C10L 1/1966** (2013.01); **C10L 1/1973** (2013.01); **C10L 1/222** (2013.01)

Cited by
US5183476A; US5718821A; WO8907637A1; EP0721492B2

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0183447 A1 19860604; EP 0183447 B1 19900314; AT E51013 T1 19900315; AU 4992785 A 19860522; AU 578502 B2 19881027; CN 1006399 B 19900110; CN 85108892 A 19860702; DE 3576518 D1 19900419; ES 548867 A0 19870501; ES 8705479 A1 19870501; GB 8428880 D0 19841227; JP H0689346 B2 19941109; JP S61123698 A 19860611; NO 167757 B 19910826; NO 167757 C 19911204; NO 854527 L 19860516; PT 81508 A 19851201; PT 81508 B 19871111

DOCDB simple family (application)
EP 85308322 A 19851114; AT 85308322 T 19851114; AU 4992785 A 19851114; CN 85108892 A 19851114; DE 3576518 T 19851114; ES 548867 A 19851114; GB 8428880 A 19841115; JP 25647985 A 19851115; NO 854527 A 19851113; PT 8150885 A 19851115