Title (en)

MIDDLE DISTILLATE COMPOSITIONS WITH IMPROVED LOW TEMPERATURE FLOW PROPERTIES

Publication

EP 0113581 B1 19920916 (EN)

Application

EP 83307869 A 19831222

Priority

GB 8300016 A 19830104

Abstract (en)

[origin: EP0113581A1] The flow properties of a distillate petroleum fuel oil whose 20% and 90% distillation points differ within the range of from 65 to 100 DEG C, and/or whose 90% to final boiling point is 10 to 20 DEG C is improved by the inclusion of a copolymer of ethylene and a vinyl ester of a carboxylic acid containing 1 to 4 carbon atoms containing 32 to 35 wt % of the vinyl ester and having a number average molecular weight of 1000 to 6000.

IPC 1-7

C10L 1/18

IPC 8 full level

C10L 1/192 (2006.01); **C10L 1/18** (2006.01); **C10L 1/197** (2006.01); **C10L 10/14** (2006.01)

CPC (source: EP KR)

C10L 1/18 (2013.01 - KR); **C10L 1/1973** (2013.01 - EP); **C10L 10/14** (2013.01 - EP)

Cited by

US5814110A; US6110238A; CN1065886C; US5494967A; TR27487A; EP0217602A1; US4802892A; WO9400516A1; WO9400536A1; US6251146B1; US6187065B1; WO2019145664A1; US11644155B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0113581 A1 19840718; **EP 0113581 B1 19920916**; **EP 0113581 B2 19960807**; AT E80651 T1 19921015; AU 2305183 A 19840705; CA 1263235 A 19891128; DD 226901 A5 19850904; DD 236940 A5 19860625; DE 3382624 D1 19921022; DE 3382624 T2 19930107; DE 3382624 T3 19970102; DK 164792 B 19920817; DK 164792 C 19930104; DK 3184 A 19840705; DK 3184 D0 19840104; FI 834887 A0 19831230; FI 834887 A 19840705; GB 8300016 D0 19830209; IN 159929 B 19870613; JP 2534818 B2 19960918; JP H0330637 B2 19910501; JP H05186782 A 19930727; JP S59136391 A 19840804; KR 840007434 A 19841207; KR 910004942 B1 19910718; NO 172650 B 19930510; NO 172650 C 19930818; NO 834889 L 19840705; NZ 206666 A 19870630

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EP 83307869 A 19831222; AT 83307869 T 19831222; AU 2305183 A 19831230; CA 444122 A 19831222; DD 25917384 A 19840103; DD 28102284 A 19840103; DE 3382624 T 19831222; DK 3184 A 19840104; FI 834887 A 19831230; GB 8300016 A 19830104; IN 859DE1983 A 19831223; JP 19284 A 19840104; JP 20114492 A 19920728; KR 830006322 A 19831230; NO 834889 A 19831230; NZ 20666683 A 19831221