

Title (en)

Petroleum middle distillate with improved cold flow characteristics.

Title (de)

Erdölmitteldestillate mit verbesserten Fließeigenschaften in der Kälte.

Title (fr)

Distillat moyen de pétrole à propriétés d'écoulement au froid améliorées.

Publication

EP 0485774 B1 19940216 (DE)

Application

EP 91118117 A 19911024

Priority

DE 4036226 A 19901114

Abstract (en)

[origin: EP0485774A1] Petroleum middle distillates having improved cold-flow properties contain small quantities of A) conventional ethylene-base flow improvers and B) copolymers which consist a) of 10 to 90 mol% of one or more alkyl acrylates or alkyl methacrylates having C1- to C30-alkyl chains and b) of 5 to 60 mol% of one or more ethylenically unsaturated dicarboxylic acids or anhydrides thereof and c) of 5 to 60 mol% of one or more alkyl vinyl ethers having C18- to C28-alkyl side chains, the A/B weight ratio being 40 : 60 to 95 : 5. c

IPC 1-7

C10L 1/18; **C10L 1/14**; **C10L 1/22**

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/18** (2006.01); **C10L 1/195** (2006.01); **C10L 1/196** (2006.01); **C10L 1/197** (2006.01); **C10L 1/22** (2006.01); **C10L 1/236** (2006.01)

CPC (source: EP)

C10L 1/146 (2013.01); **C10L 1/195** (2013.01); **C10L 1/196** (2013.01); **C10L 1/1973** (2013.01); **C10L 1/2364** (2013.01)

Cited by

EP1541663A1; KR100599016B1; EP1526168A3; DE10349858B4; EP1605031A3; EP1674554A1; KR100778557B1; EA009104B1; EP0673990A1; US5585337A; DE10349862B4; EP0900836A1; US6010989A; EP1526168A2; US7988748B2; WO2005040234A1

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DOCDB simple family (publication)

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