

Title (en)

Use of an additive in a fuel oil composition as a flow improver

Title (de)

Verwendung eines Additives in einer Brennstoffölszusammensetzung als Fließverbesserer

Title (fr)

Utilisation d'un additif dans une composition de fuel-oil comme agent améliorant l'écoulement

Publication

EP 0343981 B2 19980225 (EN)

Application

EP 89305290 A 19890525

Priority

GB 8812380 A 19880525

Abstract (en)

[origin: EP0343981A1] A fuel composition comprising a major proportion by weight of a liquid hydrocarbon fuel and a minor proportion by weight of a polymer containing more than one amino group, this amino group being a salt of a primary, secondary or tertiary amine or a quaternary ammonium salt, for example an amine salt of a copolymer of an alkyl fumarate, vinyl acetate and maleic anhydride.

IPC 1-7

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

IPC 8 full level

C10L 1/234 (2006.01); **C10L 1/14** (2006.01); **C10L 1/192** (2006.01); **C10L 1/195** (2006.01); **C10L 1/22** (2006.01); **C10L 1/222** (2006.01); **C10L 1/236** (2006.01); **C10L 10/14** (2006.01); **C10L 1/18** (2006.01)

CPC (source: EP KR)

C10L 1/146 (2013.01 - EP); **C10L 1/22** (2013.01 - KR); **C10L 1/236** (2013.01 - EP); **C10L 1/2364** (2013.01 - EP); **C10L 1/1963** (2013.01 - EP); **C10L 1/1966** (2013.01 - EP); **C10L 1/1973** (2013.01 - EP); **C10L 1/1985** (2013.01 - EP)

Cited by

FR2802940A1; EP0475052A1; US5214224A; US5232963A; US9222046B2; WO0148122A1; US6251146B1; US6187065B1

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0343981 A1 19891129; **EP 0343981 B1 19941214**; **EP 0343981 B2 19980225**; CN 1024680 C 19940525; CN 1038298 A 19891227; DE 68919907 D1 19950126; DE 68919907 T2 19950504; DE 68919907 T3 19981008; GB 8812380 D0 19880629; JP 2723972 B2 19980309; JP H0224394 A 19900126; KR 900018339 A 19901221; KR 960013611 B1 19961009

DOCDB simple family (application)

EP 89305290 A 19890525; CN 89104602 A 19890525; DE 68919907 T 19890525; GB 8812380 A 19880525; JP 13251789 A 19890525; KR 890007011 A 19890525