

Title (en)

Use of tertiary-alkyl primary amines in fuel compositions used as heat-transfer fluid

Title (de)

Verwendung von tertiäralkylprimären Aminen in Brennstoffzusammensetzungen, die als Wärmeträgerfluid verwendet werden

Title (fr)

Utilisation d' amines primaires avec un alkyle tertiaire dans des compositions de combustible utilisées en tant que fluide caloporteur

Publication

EP 0947577 A1 19991006 (EN)

Application

EP 99302308 A 19990325

Priority

US 7725098 P 19980309

Abstract (en)

A fuel composition includes a major amount of fuel; a minor amount of a cetane number improver; and a minor amount of at least one tertiary alkyl primary amine of the formula: <CHEM> wherein: R1, R2, and R3 are each independently (C1-C21) alkyl, substituted (C1-C21) alkyl, (C1-C21) alkenyl or substituted (C1-C21) alkenyl. The improved fuel oil compositions enjoy improved stabilization against: 1) sediment formation, 2) color degradation during storage and distribution as well as improved cetane number, rust inhibition and demulsibility. Particularly, fuel oil compositions containing cetane improvers having improved thermal stability.

IPC 1-7

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

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/22** (2006.01); **C10L 1/222** (2006.01); **C10L 10/00** (2006.01); **C10L 1/18** (2006.01); **C10L 1/24** (2006.01)

CPC (source: EP)

C10L 1/14 (2013.01); **C10L 1/22** (2013.01); **C10L 1/222** (2013.01); **C10L 10/04** (2013.01); **C10L 10/12** (2013.01); **C10L 1/1811** (2013.01); **C10L 1/231** (2013.01); **C10L 1/232** (2013.01); **C10L 1/2425** (2013.01)

Citation (search report)

- [X] US 4482355 A 19841113 - HANLON J VINCENT [US]
- [Y] US 2456569 A 19481214 - SMITH ANDREW I
- [Y] US 2945749 A 19600719 - ANDRESS HARRY J
- [DPY] EP 0890570 A2 19990113 - ROHM & HAAS [US]
- [A] US 3014793 A 19611226 - WEISGERBER GEORGE A, et al

Cited by

US7615085B2; EP1531174A3; EP1054051A1; WO2013160294A1; US9056268B2; US10226723B2; US11565206B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0947577 A1 19991006; **EP 0947577 B1 20041215**

DOCDB simple family (application)

EP 99302308 A 19990325