

Title (en)

HEAVY HYDROCARBON COMPOSITION WITH UTILITY AS A HEAVY LUBRICANT BASE STOCK

Title (de)

SCHWERE KOHLENWASSERSTOFFZUSAMMENSETZUNG MIT NUTZEN ALS SCHWERE SCHMIERSTOFFGRUNDLAGE

Title (fr)

COMPOSITION D'HYDROCARBURES LOURDS UTILISEE COMME HUILE DE BASE POUR LUBRIFIANTS LOURDS

Publication

EP 1558711 A1 20050803 (EN)

Application

EP 03770718 A 20031007

Priority

- US 0332097 W 20031007
- US 26634402 A 20021008
- US 65238903 A 20030829

Abstract (en)

[origin: WO2004033607A1] A heavy hydrocarbon composition with utility as a heavy hydrocarbon base stock comprising at least 95 wt.% paraffin molecules, of which at least 90 wt.% are isoparaffin, containing hydrocarbon molecules having consecutive numbers of carbon atoms, is a liquid at 100 °C, at which temperature its kinematic viscosity, as measured by ASTM D-445, is above 8 cSt, has an initial boiling point of least 850 °F (454 °C) and an end boiling point of at least 1000 °F (538 °C), wherein the branching index (BI), as measured by the percentage of methyl hydrogens, and the branching proximity (CH₂>4), as measured by the percentage of recurring methylene carbons which are four or more carbon atoms removed from an end group or branch, of said isoparaffinic hydrocarbon molecules, are such that: (a) BI-0.5(CH₂>4)<15; and (b) BI + 0.85(CH₂>4)<45; as measured over the heavy hydrocarbon composition as a whole.

IPC 1-7

C10M 105/04; **C10M 127/02**; **C10G 45/58**; **C10G 65/04**

IPC 8 full level

C10G 45/58 (2006.01); **C10G 45/62** (2006.01); **C10G 45/64** (2006.01); **C10G 65/04** (2006.01); **C10M 171/00** (2006.01)

CPC (source: EP KR)

C10G 45/58 (2013.01 - EP KR); **C10G 45/62** (2013.01 - EP); **C10G 45/64** (2013.01 - EP); **C10G 65/04** (2013.01 - KR); **C10G 65/043** (2013.01 - EP); **C10M 105/04** (2013.01 - KR); **C10M 127/02** (2013.01 - KR); **C10M 171/00** (2013.01 - EP); **C10M 2203/1025** (2013.01 - EP); **C10M 2205/173** (2013.01 - EP)

Citation (search report)

See references of WO 2004033607A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004033607 A1 20040422; AU 2003279225 A1 20040504; AU 2003279225 B2 20081009; BR 0315011 A 20050809; CA 2499405 A1 20040422; EP 1558711 A1 20050803; JP 2006502305 A 20060119; KR 20050070045 A 20050705; NO 20051775 D0 20050411; NO 20051775 L 20050411

DOCDB simple family (application)

US 0332097 W 20031007; AU 2003279225 A 20031007; BR 0315011 A 20031007; CA 2499405 A 20031007; EP 03770718 A 20031007; JP 2005501150 A 20031007; KR 20057006145 A 20050408; NO 20051775 A 20050411