

Title (en)

Process for increasing the cetane number of diesel fuels.

Title (de)

Verfahren zur Erhöhung der Cetanzahl von Dieselölen.

Title (fr)

Procédé pour augmenter l'indice de cétane d'huiles diesel.

Publication

EP 0252606 A2 19880113 (EN)

Application

EP 87305023 A 19870605

Priority

US 87216786 A 19860609

Abstract (en)

The cetane number of a middle distillate fuel fraction is increased by contacting said fraction with oxygen or oxidant, in the presence of a catalyst, for a time sufficient to increase the cetane number. The catalyst selectively oxidizes benzylic carbon atoms present in the fuel to ketones. The fuel is preferably hydrotreated before being selectively oxidized.

IPC 1-7

C10G 27/04; **C10G 67/12**; **C10L 1/02**

IPC 8 full level

C10G 27/04 (2006.01); **C10G 53/14** (2006.01); **C10G 67/14** (2006.01); **C10L 1/02** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

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Cited by

WO2005052098A1; US6673230B2; US7300476B1; EP0381604A1; FR2642766A1; US5114434A; US8217193B2; US6488727B2; US11028805B2; US8349032B2; WO2007078720A3; WO2007075331A3; WO2010076304A1; WO0164817A3; WO2014033676A1; US9017429B2; US10443002B2; US7300568B2; US8771385B2; WO2010076303A1

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