Title (en)

Process for upgrading naphtha fractions and conversion to gasoils.

Title (de)

Verfahren zur Verbesserung von Benzinschnitten und zur Umwandlung zu Gasölen

Title (fr)

Procédé d'amelioration de coupes essences et de transformation en gazoles

Publication

**EP 1602637 B1 20081119 (FR)**

Application

**EP 05291116 A 20050524**

Priority

FR 0406096 A 20040604

Abstract (en)

[origin: EP1602637A1] A transformation process applicable to charges containing 4 - 15 carbon olefins comprises membrane separation of linear and branched olefins, oligomerization of the linear olefins, separation into light and heavy cuts, and hydrogenation of the heavy cut to obtain a gasoil of high cetane index. The process involves stages of (1) membrane separation of the charge producing a cut (beta ) containing mainly linear olefins and a cut (gamma ) comprising mainly branched chain olefins i.e. a high octane petrol; (2) treatment of the linear olefins (beta ) in moderate oligomerization conditions; (3) separation by distillation of the effluents from the oligomerization to obtain a light cut, delta (comprising hydrocarbons of final distillation point less than 150 - 200[deg]C) and a heavy cut ( ) (comprising hydrocarbons of initial distillation greater than 150 - 200[deg]C); (4) and hydrogenation of the heavy cut ( ) to obtain a gasoil of high cetane index, at least 35 and preferably greater than 45.

IPC 8 full level

**C07C 7/144** (2006.01); **C10G 57/02** (2006.01); **C10G 31/09** (2006.01); **C10G 31/10** (2006.01); **C10G 31/11** (2006.01); **C10G 35/04** (2006.01); **C10G 50/00** (2006.01)

CPC (source: EP US)

**C10G 31/10** (2013.01 - EP US); **C10G 50/00** (2013.01 - EP US)

Cited by

EA012941B1; FR2975103A1; WO2007050446A3; WO2012153010A3; WO2012153011A3; WO2023194337A1; FR3134110A1

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