Title (en)

PROCESS FOR REDUCING OXYGENATE CONTENT OF HYDROCARBON FEED

Title (de)

VERFAHREN ZUR REDUZIERUNG DES OXYGENATGEHALTS VON KOHLENWASSERSTOFFEINSÄTZEN

Title (fr)

PROCÉDÉ DE RÉDUCTION DE LA TENEUR EN COMPOSÉS OXYGÉNÉS D'UNE CHARGE D'HYDROCARBURES

Publication

EP 3497184 A1 20190619 (EN)

Application

EP 17838892 A 20170808

Priority

- IN 201621027235 A 20160809
- IB 2017054835 W 20170808

Abstract (en)

[origin: WO2018029601A1] The present disclosure provides a process for reducing oxygenate content of hydrocarbon feed. The process comprises passing and heating the hydrocarbon feed over ion exchange resin resident in a reactor, maintained at a temperature in the range of 90 to 140 °C and a predetermined pressure, at a predetermined liquid hourly space velocity to obtain a heated intermediate fluid. The heated intermediate fluid is cooled to obtain a cooled intermediate fluid. The cooled intermediate fluid is mixed with water to obtain a mixture. The mixture is allowed to settle to obtain an aqueous phase and an organic phase. The aqueous phase is separated from the organic phase to obtain hydrocarbon feed with reduced oxygenate content. The process is simple and environment friendly, enabling removal of 70-90% of the oxygenate content from the hydrocarbon feed.

IPC 8 full level

C10G 21/02 (2006.01); **C10G 25/02** (2006.01)

CPC (source: EP US)

B01J 39/05 (2016.12 - EP); **C07C 7/005** (2013.01 - EP); **C07C 7/10** (2013.01 - EP); **C07C 7/12** (2013.01 - EP); **C10G 21/02** (2013.01 - US); **C10G 25/02** (2013.01 - EP US); **C10G 27/10** (2013.01 - EP US); **C10G 31/08** (2013.01 - EP US); **C10G 33/06** (2013.01 - EP US); **C10G 53/04** (2013.01 - EP US); **C10G 75/00** (2013.01 - EP US); C10G 2300/104 (2013.01 - EP US); C10G 2300/1044 (2013.01 - EP US); C10G 2300/202 (2013.01 - EP US); C10G 2400/02 (2013.01 - EP US); C10G 2400/20 (2013.01 - EP US)

Designated contracting state (EPC)

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