

Title (en)

CO-CURRENT ADIABATIC REACTION SYSTEM FOR CONVERSION OF TRIACYLGLYCERIDES RICH FEEDSTOCKS

Title (de)

GLEICHLAUFENDES ADIABATISCHES REAKTIONSSYSTEM ZUR UMWANDLUNG VON TRIACYLGLYCERIDREICHEN ROHSTOFFEN

Title (fr)

SYSTÈME COCOURANT DE RÉACTION ADIABATIQUE POUR LA CONVERSION DE MATIÈRES PREMIÈRES RICHES EN TRIACYLGLYCÉRIDES

Publication

EP 3077481 A4 20170705 (EN)

Application

EP 14867446 A 20141203

Priority

- US 201314096763 A 20131204
- US 2014068331 W 20141203

Abstract (en)

[origin: US2015152336A1] A process for converting triacylglycerides-containing oils into crude oil precursors and/or distillate hydrocarbon fuels is disclosed. The process may include: reacting a triacylglycerides-containing oil-water-hydrogen mixture in a single reactor at a temperature in the range from about 250° C. to about 650° C. and a pressure greater than about 75 bar to convert at least a portion of the triacylglycerides via homogeneously catalyzed hydrothermolysis and heterogeneously catalyzed hydrotreatment.

IPC 8 full level

C10G 3/00 (2006.01)

CPC (source: EP US)

C10G 3/42 (2013.01 - EP US); **C10G 3/50** (2013.01 - EP US); **C10G 65/04** (2013.01 - EP US); **Y02E 50/10** (2013.01 - EP US); **Y02P 30/20** (2015.11 - EP US)

Citation (search report)

- [XI] US 2012101319 A1 20120426 - ROBERTS VIRGINIA M [US], et al
- [X] US 2013310620 A1 20131121 - KALNES TOM N [US]
- [X] WO 2008103204 A2 20080828 - UNIV NORTH CAROLINA STATE [US], et al
- [X] US 4761220 A 19880802 - BERET SAMIL [US], et al
- [XP] WO 2014093098 A1 20140619 - CHEVRON LUMMUS GLOBAL LLC [US], et al
- See references of WO 2015084935A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 201314096763 A 20131204; AR P140104519 A 20141204; BR 112016012751 A 20141203; EP 14867446 A 20141203; JP 2016536630 A 20141203; TW 103141776 A 20141202; US 2014068331 W 20141203