Title (en)
   RESIDUE HYDROCRACKING PROCESSING

Title (de)
   HYDROCRACKEN VON RÜCKSTÄNDEN

Title (fr)
   HYDROCRAQUAGE DE RÉSIDUS

Publication
   EP 2951271 A1 20151209 (EN)

Application
   EP 14745606 A 20140120

Priority
   • US 201313758429 A 20130204
   • US 2014012159 W 20140120

Abstract (en)
   [origin: US2014221713A1] A process for upgrading residuum hydrocarbons and decreasing tendency of the resulting products toward asphaltenic
   sediment formation in downstream processes is disclosed. The process may include: contacting a residuum hydrocarbon fraction and hydrogen
   with a hydroconversion catalyst in a hydrocracking reaction zone to convert at least a portion of the residuum hydrocarbon fraction to lighter
   hydrocarbons; recovering an effluent from the hydrocracking reaction zone; contacting hydrogen and at least a portion of the effluent with a resid
   hydrotreating catalyst; and separating the effluent to recover two or more hydrocarbon fractions.

IPC 8 full level
   C10G 67/04 (2006.01); **C10G 1/06** (2006.01); **C10G 21/00** (2006.01); **C10G 65/00** (2006.01); **C10G 65/02** (2006.01); **C10G 65/12** (2006.01);
   C10G 65/14 (2006.01); **C10G 67/00** (2006.01)

CPC (source: EP KR RU US)
   C10G 1/06 (2013.01 - EP KR US); **C10G 21/14** (2013.01 - RU); **C10G 65/00** (2013.01 - EP KR US); **C10G 65/02** (2013.01 - EP KR US);
   C10G 65/12 (2013.01 - EP KR US); **C10G 65/14** (2013.01 - EP KR RU US); **C10G 67/00** (2013.01 - EP KR US); **C10G 67/04** (2013.01 - RU);
   C10G 67/0454 (2013.01 - EP KR US); **C10G 67/0463** (2013.01 - EP KR US); **C10G 67/049** (2013.01 - EP KR US);
   C10G 2300/107 (2013.01 - EP KR US); C10G 2300/1077 (2013.01 - EP KR US)

Designated contracting state (EPC)
   AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
   BA ME

DOCDB simple family (publication)
   US 2014221713 A1 20140807; BR 112015018662 A2 20170718; BR 112015018662 B1 20210608; CA 2897212 A1 20140807;
   CA 2897212 C 20190910; CN 105008493 A 20151028; CN 105008493 B 20180213; EP 2951271 A1 20151209; EP 2951271 A4 20161102;
   KR 102005137 B1 20190729; KR 20150109394 A 20151001; KR 20180011876 A 20180202; MX 2015009167 A 20160218;
   MX 370189 B 20191204; MY 172445 A 20191126; RU 2015137682 A 20170310; RU 2663896 C2 20180813; SG 11201505331W A 20150828;
   TW 201437354 A 20141001; TW I486435 B 20150601; WO 2014120490 A1 20140807

DOCDB simple family (application)
   US 201313758429 A 20130204; BR 112015018662 A 20140120; CA 2897212 A 20140120; CN 201480004909 A 20140120;
   EP 14745606 A 20140120; KR 20157021756 A 20140120; KR 20187002321 A 20140120; MX 2015009167 A 20140120;
   MY PI2015001770 A 20140120; RU 2015137682 A 20140120; SG 11201505331W A 20140120; TW 103103166 A 20140128;
   US 2014012159 W 20140120