

Title (en)
CRUDE TREATMENT SYSTEM

Title (de)
ROHBEHANDLUNGSSYSTEM

Title (fr)
SYSTÈME DE TRAITEMENT BRUT

Publication
EP 2354212 A1 20110810 (EN)

Application
EP 10192161 A 20101123

Priority
JP 2010004345 A 20100112

Abstract (en)
[Task] To provide a crude treatment system which treats crude containing a comparatively large content of nickel, vanadium, or carbon residue so as to supply a raw material to a downstream catalytic cracking process. [Means for Resolution] A primary distillation tower 11 fractionates first crude into a residue fraction partly used as raw oil of a catalytic cracking process and other fractions. A secondary distillation tower 21 fractionates second crude containing a larger content of a catalytic poison with respect to catalysts used in the catalytic cracking process than the first crude into a light fraction included in a distillation temperature range of the other fractions and a heavy fraction as a rest thereof. A light fraction supply line supplies the light fraction to the primary distillation tower 11 so as to be treated in the primary distillation tower 11.

IPC 8 full level
C10G 11/00 (2006.01); **C10G 7/00** (2006.01)

CPC (source: EP US)
C10G 7/00 (2013.01 - EP US); **C10G 11/18** (2013.01 - EP US)

Citation (applicant)
JP 2003277770 A 20031002 - HITACHI LTD

Citation (search report)
• [X] US 2005284796 A1 20051229 - BENHAM KELLY [CA]
• [X] US 2005006279 A1 20050113 - GUERET CHRISTOPHE [FR], et al
• [X] DERUNGS W A: "Naphthenic Acid Corrosion An Old Enemy Of The Petroleum Industry", CORROSION, NACE INTERNATIONAL, US, vol. 12, no. 2, 1 January 1956 (1956-01-01), pages 41 - 46, XP009144971, ISSN: 0010-9312
• [X] JAYARAMAN A ET AL: "Naphthenic Acid Corrosion in Petroleum Refineries. A Review", OIL & GAS SCIENCE AND TECHNOLOGY - REVUE DE L'INSTITUT FRANCAISDU PETROLE, EDITIONS TECHNIP, PARIS, FR, vol. 41, no. 2, 1 March 1986 (1986-03-01), pages 265 - 274, XP009144952, ISSN: 0020-2274, DOI: 10.2516/OGST:1986016
• [A] O'CONNOR P ET AL: "Challenges, catalyst technology and catalytic solutions in resid FCC", CATALYSIS TODAY, ELSEVIER, NL, vol. 43, no. 3-4, 1 January 1998 (1998-01-01), pages 305 - 313, XP009145240, ISSN: 0920-5861

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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 2011168524 A1 20110714; EP 2354212 A1 20110810; JP 2011144224 A 20110728; JP 5421793 B2 20140219; MY 155696 A 20151113

DOCDB simple family (application)
US 92790110 A 20101129; EP 10192161 A 20101123; JP 2010004345 A 20100112; MY PI2010005517 A 20101123