

Title (en)
PROCESS FOR CONVERSION OF CRUDE OIL TO PETROCHEMICALS AND FUEL PRODUCTS INTEGRATING STEAM CRACKING, FLUID CATALYTIC CRACKING, AND CONVERSION OF NAPHTHA INTO CHEMICAL RICH REFORMATE

Title (de)
VERFAHREN ZUR UMWANDLUNG VON ROHÖLEN ZU PETROCHEMIE UND KRAFTSTOFFPRODUKTEN, DIE DAMPFSPALTUNG, FLUID CATALYTIC CRACKING UND UMWANDLUNG VON NAPHTHA INTEGRIEREN

Title (fr)
PROCÉDÉ POUR LA CONVERSION DE PETROLE BRUT EN COMPOSÉS PETROCHIMIQUES ET CARBURANTS EN INTÉGRANT CRAQUAGE À LA VAPEUR, EN LIT FLUIDE ET REFORMAGE DE NAPHTHA

Publication
EP 3541894 B1 20240110 (EN)

Application
EP 17812154 A 20171120

Priority
• US 201662424883 P 20161121
• US 201762450060 P 20170124
• US 201762450058 P 20170124
• US 201762450018 P 20170124
• US 201715710799 A 20170920
• US 2017062614 W 20171120

Abstract (en)
[origin: WO2018094353A1] Process scheme configurations are disclosed that enable conversion of crude oil feeds with several processing units in an integrated manner into petrochemicals. The designs utilize minimum capital expenditures to prepare suitable feedstocks for the steam cracker complex. The integrated process for converting crude oil to petrochemical products including olefins and aromatics, and fuel products, includes mixed feed steam cracking, fluid catalytic cracking and conversion of naphtha to chemical rich reformat. Feeds to the mixed feed steam cracker include light products from hydroprocessing zones within the battery limits, recycle streams from the C3 and C4 olefins recovery steps, and raffinate from a pyrolysis gasoline and FCC naphtha aromatics extraction zone within the battery limits. Chemical reformat from straight run naphtha streams is used as an additional feed to the aromatics extraction zone and or the mixed feed steam cracker.

IPC 8 full level
C10G 35/04 (2006.01); **C10G 7/06** (2006.01); **C10G 9/36** (2006.01); **C10G 21/00** (2006.01); **C10G 47/00** (2006.01); **C10G 69/08** (2006.01)

CPC (source: EP KR)
C10G 7/06 (2013.01 - EP KR); **C10G 9/36** (2013.01 - EP KR); **C10G 21/00** (2013.01 - EP KR); **C10G 35/04** (2013.01 - EP KR); **C10G 47/00** (2013.01 - EP KR); **C10G 69/08** (2013.01 - EP KR); **C10G 2400/04** (2013.01 - KR); **C10G 2400/06** (2013.01 - KR)

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

DOCDB simple family (publication)
WO 2018094353 A1 20180524; **WO 2018094353 A9 20180802**; CN 110214170 A 20190906; CN 110214170 B 20211207; EP 3541894 A1 20190925; EP 3541894 B1 20240110; JP 2020500966 A 20200116; KR 20190086707 A 20190723

DOCDB simple family (application)
US 2017062614 W 20171120; CN 201780078195 A 20171120; EP 17812154 A 20171120; JP 2019527360 A 20171120; KR 20197017067 A 20171120