

Title (en)  
UPGRADING OF THE AROMATICS ORIGINATING FROM CATALYTIC CRACKED GASOLINES TO THE AROMATICS COMPLEX

Title (de)  
VERBESSERUNG DER AROMATEN, DIE AUS KATALYTISCHEN KRACKBENZINEN IN DEN AROMATENKOMPLEX STAMMEN

Title (fr)  
VALORISATIONS DES AROMATIQUES PROVENANT DES ESSENCES DE CRAQUAGE CATALYTIQUE VERS LE COMPLEXE AROMATIQUE

Publication  
**EP 4314203 A1 20240207 (FR)**

Application  
**EP 22714883 A 20220323**

Priority  
• FR 2103284 A 20210330  
• EP 2022057567 W 20220323

Abstract (en)  
[origin: WO202207418A1] The present invention relates to a process and a device for the treatment and separation of aromatic compounds from a gasoline feedstock, comprising the following stages/units: selective hydrogenation (A) of the gasoline feedstock (1) in the presence of hydrogen (2) in order to produce a selective hydrogenation effluent (3); fractionation (B) of the selective hydrogenation effluent (3) in order to produce at least a C5- cut (4) containing compounds having 5 or less carbon atoms and a C6+ cut (5) containing compounds having at least 6 carbon atoms; hydrogenation (C) of the C6+ cut (5) in order to produce a hydrogenation effluent (6); extraction of the aromatics (D) from the hydrogenation effluent (6) in order to produce at least an aromatic stream (17) concentrated in aromatic compounds and a raffinate (10) concentrated in non-aromatic compounds, with respect to the composition of the hydrogenation effluent (6).

IPC 8 full level  
**C10G 45/32** (2006.01); **C07C 7/10** (2006.01); **C10G 11/18** (2006.01); **C10G 21/12** (2006.01); **C10G 21/28** (2006.01); **C10G 65/06** (2006.01); **C10G 67/04** (2006.01); **C10G 69/04** (2006.01)

CPC (source: EP KR US)  
**B01D 3/143** (2013.01 - US); **B01D 11/0488** (2013.01 - US); **B01D 11/0492** (2013.01 - US); **B01J 8/1827** (2013.01 - US); **B01J 8/26** (2013.01 - US); **C10G 11/18** (2013.01 - EP KR); **C10G 21/12** (2013.01 - EP KR); **C10G 21/28** (2013.01 - EP KR); **C10G 45/32** (2013.01 - EP KR); **C10G 65/06** (2013.01 - EP KR); **C10G 67/04** (2013.01 - EP KR); **C10G 67/0427** (2013.01 - US); **C10G 69/04** (2013.01 - EP KR); **C10G 2300/104** (2013.01 - EP KR); **C10G 2300/1044** (2013.01 - EP KR US); **C10G 2400/02** (2013.01 - US); **C10G 2400/30** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 202207418A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 202207418 A1 20221006**; CN 117098827 A 20231121; EP 4314203 A1 20240207; FR 3121446 A1 20221007; FR 3121446 B1 20240503; JP 2024512687 A 20240319; KR 20230160326 A 20231123; TW 202248404 A 20221216; US 2024158706 A1 20240516

DOCDB simple family (application)  
**EP 2022057567 W 20220323**; CN 202280025766 A 20220323; EP 22714883 A 20220323; FR 2103284 A 20210330; JP 2023560444 A 20220323; KR 20237035964 A 20220323; TW 111112144 A 20220330; US 202218284446 A 20220323