

Title (en)

PROCESS FOR ETHYLBENZENE PRODUCTION AND TRANSALKYLATION TO XYLENE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ETHYLBENZOL UND DESSEN TRANSALKYLIERUNG ZU XYLEN

Title (fr)

PROCÉDÉ POUR LA FABRICATION D ÉTHYLBENZÈNE ET LA TRANSALKYLATION AU XYLÈNE

Publication

EP 1846348 A1 20071024 (EN)

Application

EP 05713284 A 20050211

Priority

US 2005004243 W 20050211

Abstract (en)

[origin: WO2006088439A1] The use of two transalkylation catalysts to react aromatic compounds of carbon number nine (and heavier carbon numbers) with benzene to form carbon number eight aromatics is disclosed. The two catalyst system preserves ethyl-group species on the heavier aromatics that would otherwise de-ethylate over most gas-phase transalkylation catalysts to form undesired ethane gas with benzene or toluene. Thus, by using a transalkylation step to save ethylbenzene, a greater yield of para-xylene or other carbon number eight aromatics may be achieved within an integrated complex.

IPC 8 full level

C07C 5/27 (2006.01)

CPC (source: EP)

C07C 6/126 (2013.01); **C07C 15/08** (2013.01); **C07C 2529/08** (2013.01); **C07C 2529/18** (2013.01); **C07C 2529/70** (2013.01)

Citation (search report)

See references of WO 2006088439A1

Designated contracting state (EPC)

DE IT PL

DOCDB simple family (publication)

WO 2006088439 A1 20060824; EP 1846348 A1 20071024

DOCDB simple family (application)

US 2005004243 W 20050211; EP 05713284 A 20050211