

Title (en)
Isomerization process and apparatus.

Title (de)
Verfahren und Apparat zum Isomerisieren.

Title (fr)
Procédé et appareil d'isomérisation.

Publication
EP 0295638 A1 19881221 (EN)

Application
EP 88109494 A 19880614

Priority
US 6276287 A 19870615

Abstract (en)
Processing and apparatus are provided for upgrading the octane of a mixed hydrocarbon gasoline feedstock by an integrated adsorption-isomerization process which catalytically isomerizes normal paraffinic hydrocarbons and concentrates non-normals in a product stream, in both the reactor-lead and absorber-lead configuration. The process includes passing an absorber feed stream comprising hydrogen as well as hydrocarbons to an absorbent bed to absorb normal hydrocarbons. The hydrogen is preferably obtained from a hot hydrogen-containing process stream which is not cooled or separated into component parts prior to forming the absorber feed. In some embodiments, the hot-hydrogen containing stream comes from reactor effluent and in others from desorption effluent. According to the invention, the only hydrogen which will require cooling and separation from a hydrocarbon component is that which is recycled for desorption. The invention provides improved energy efficiency and can reduce equipment size and complexity.

IPC 1-7
C07C 5/27; **C07C 7/12**; **C10G 65/04**

IPC 8 full level
C07C 1/00 (2006.01); **C07C 5/27** (2006.01); **C07C 7/12** (2006.01); **C07C 9/16** (2006.01); **C07C 67/00** (2006.01); **C10G 65/04** (2006.01)

CPC (source: EP)
C10G 65/043 (2013.01)

Citation (search report)
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Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0295638 A1 19881221; **EP 0295638 B1 19910911**; AT E67234 T1 19910915; AU 1765588 A 19881215; AU 602587 B2 19901018; CA 1314568 C 19930316; DE 3864755 D1 19911017; DK 322788 A 19881216; DK 322788 D0 19880614; ES 2024591 B3 19920301; GR 3002763 T3 19930125; IN 171273 B 19920829; JP H01221334 A 19890904; JP H0639406 B2 19940525; NO 882612 D0 19880614; NO 882612 L 19881216

DOCDB simple family (application)
EP 88109494 A 19880614; AT 88109494 T 19880614; AU 1765588 A 19880614; CA 569447 A 19880614; DE 3864755 T 19880614; DK 322788 A 19880614; ES 88109494 T 19880614; GR 910401374 T 19910919; IN 401MA1988 A 19880614; JP 14560588 A 19880615; NO 882612 A 19880614