

Title (en)

SELECTIVE NAPHTHA HYDRODESULFURIZATION WITH HIGH TEMPERATURE MERCAPTAN DECOMPOSITION

Title (de)

SELEKTIVE NAPHTHA-HYDRODESULFURIERUNG MIT MERCAPTANZERSETZUNG BEI HOHER TEMPERATUR

Title (fr)

HYDRODESULFURATION SELECTIVE DU NAPHTHA AVEC DECOMPOSITION DES MERCAPTANS A HAUTE TEMPERATURE

Publication

EP 1954785 A4 20110622 (EN)

Application

EP 06827807 A 20061114

Priority

- US 2006044231 W 20061114
- US 28658005 A 20051123

Abstract (en)

[origin: US2007114156A1] A process for the selective hydrodesulfurization of olefinic naphtha streams containing a substantial amount of organically bound sulfur and olefins. The olefinic naphtha stream is selectively desulfurized in a first hydrodesulfurization reaction stage. This effluent stream is then contacted with a stripping agent in a H₂S removal zone, such as steam or an amine solution, to remove H₂S from the effluent stream, thereby reducing the H₂S partial pressure of the process stream. The process stream is then subjected to a second desulfurization reaction stage followed by a mercaptan decomposition stage to reduce the content of mercaptan sulfur in the final product stream. In a second embodiment, the effluent stream from the first hydrodesulfurization reaction stage, after being subjected to the H₂S removal zone, is fed directly to the mercaptan decomposition stage where total sulfur content and mercaptan sulfur content are reduced in the final product stream.

IPC 8 full level

C10G 45/00 (2006.01); **C10G 67/02** (2006.01)

CPC (source: EP US)

C10G 65/04 (2013.01 - EP US); **C10G 67/02** (2013.01 - EP US); **C10G 69/02** (2013.01 - EP US); **C10G 2300/1044** (2013.01 - EP US); **C10G 2300/202** (2013.01 - EP US); **C10G 2300/207** (2013.01 - EP US); **C10G 2300/301** (2013.01 - EP US); **C10G 2300/4006** (2013.01 - EP US); **C10G 2300/4012** (2013.01 - EP US); **C10G 2300/807** (2013.01 - EP US)

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Designated contracting state (EPC)

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