

Title (en)

A process for removing sulfur compounds from hydrocarbon streams

Title (de)

Verfahren zur Entfernung von Schwefelverbindungen aus Kohlenwasserstoffbeschickungen

Title (fr)

Procédé d'extraction de composés de soufre de flux d'hydrocarbures

Publication

EP 1270704 B1 20060927 (EN)

Application

EP 01115343 A 20010626

Priority

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Abstract (en)

[origin: EP1270704A1] A process for removing H₂S and mercaptans from a hydrocarbon stream is disclosed. A hydrocarbon stream such as a LPG stream is contacted with a weakly basic stream, e.g., a sodium bicarbonate stream in order to extract the H₂S and mercaptans from the hydrocarbon stream into the basic stream. The basic stream is now treated in a reactor containing a sulfide oxidizing microorganism in order to convert the H₂S to sulfur and the mercaptans to disulfides. Finally, the sulfur and disulfides are separated from the basic aqueous stream which can be recycled and used to treat a fresh hydrocarbon stream. The treated hydrocarbon stream is purified to the point that it passes the copper strip test, while the purified basic stream contains less than 0.08 g/l of elemental sulfur. <IMAGE>

IPC 8 full level

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Cited by

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