

Title (en)

METHOD FOR REMOVING SULFUR-CONTAINING CONTAMINANTS, AROMATICS AND HYDROCARBONS FROM GAS

Title (de)

VERFAHREN ZUM ENTFERNEN VON SCHWEFELENTHALTENDEN VERUNREINIGUNGEN, AROMATEN UND KOHLENWASSERSTOFFEN AUS GAS

Title (fr)

PROCEDE POUR ELIMINER LES CONTAMINANTS A TENEUR EN SOUFRE, LES AROMATIQUES ET LES HYDROCARBURES CONTENUS DANS UN GAZ

Publication

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Application

EP 97900808 A 19970120

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Abstract (en)

[origin: WO9726070A1] This invention relates to a method for removing sulfur-containing contaminants in the form of mercaptans and H₂S from natural gas, which may also contain CO₂ and higher aliphatic and aromatic hydrocarbons, and recovering elemental sulfur, wherein in a first absorption step the sulfur-containing contaminants are removed from the gas, to form on the one hand a purified gas stream and on the other hand a sour gas, which sour gas is fed to a second absorption step in which the sour gas is separated into an H₂S-enriched and mercaptan-reduced first gas stream, which is fed to a Claus plant, followed by a selective oxidation step of H₂S to elemental sulfur in the tail gas, and an H₂S-reduced and mercaptan-enriched second gas stream, which second gas stream, if desired after further treatment, is subjected to a selective oxidation of sulfur compounds to elemental sulfur.

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