

Title (en)
METHOD FOR REMOVING SULFUR-CONTAINING CONTAMINANTS, AROMATICS AND HYDROCARBONS FROM GAS

Title (de)
VERFAHREN ZUM ENTFERNEN VON SCHWEFELHALTIGEN 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

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Application
EP 97900807 A 19970120

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Abstract (en)
[origin: WO9726069A1] The invention relates to a method for removing sulfur-containing contaminants in the form of mercaptans and H₂S from a hydrocarbon 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 hydrogenated in order to convert the greater part of the mercaptans to H₂S, whereafter the hydrogenated sour gas is fed to a second absorption stage in which the sour gas is separated into an H₂S-enriched 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 second gas stream, which second gas stream is combusted.

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