

Title (en)
GAS TREATMENT METHOD

Title (de)
GASBEHANDLUNGSVERFAHREN

Title (fr)
PROCEDE DE TRAITEMENT DE GAZ

Publication
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Application
EP 16714864 A 20160404

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Abstract (en)
[origin: WO2016177520A1] The present invention relates to a method for treating a gas including 0 ppm by volume to 0.5 vol % of at least one of the compounds COS and CS₂, and 30 ppm by volume to 5 vol % of unsaturated hydrocarbon compounds, said method including the following steps:
a) hydrogenating unsaturated organic compounds to form paraffins, by placing said gas in contact with a hydrogenation catalyst in the presence of hydrogen at a temperature of between 100 and 400°C so as to supply an effluent that is depleted of unsaturated hydrocarbon compounds, the hydrogenation catalyst including at least one metal selected from among palladium, platinum, nickel and cobalt deposited on a porous substrate; b) performing catalytic hydrolysis-hydrogenation in the presence of water of the COS and/or of the CS₂ contained in the effluent obtained from step a) so as to provide an effluent that is rich in H₂S by placing the effluent obtained from step a) in contact with a hydrolysis-hydrogenation catalyst.

IPC 8 full level
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Citation (search report)
See references of WO 2016177520A1

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