

Title (en)

PROCESS FOR REMOVAL OF ORGANO-SULFUR COMPOUNDS FROM LIQUID HYDROCARBONS

Title (de)

VERFAHREN ZUR ENTFERNUNG VON ORGANISCHEN SCHWEFELVERBINDUNGEN AUS FLÜSSIGEN KOHLENWASSERSTOFFEN

Title (fr)

PROCEDE POUR L'ELIMINATION DE COMPOSES ORGANOSOUFRES DES HYDROCARBURES LIQUIDES

Publication

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Application

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Abstract (en)

[origin: WO9735945A2] A process for purifying a liquid hydrocarbon feedstock containing organo-sulfur compounds wherein an aqueous sulfuric acid solution containing ions of a transition metal, such as vanadium, chromium, manganese, cobalt, cerium or mixtures thereof, is subject to electrolysis to oxidize the metal ions to a higher oxidation state, the electrolyzed solution is emulsified with the feedstock to achieve oxidation of the organo-sulfur compounds to form water soluble sulfur compounds, gaseous products, resinous products; the spent aqueous acidic solution and the purified hydrocarbon product are separated and the spent aqueous solution is recycled via electrolysis.

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