

Title (en)

METHOD FOR THE CATALYTIC PURIFICATION OF LIGHT HYDROCARBONS

Title (de)

VERFAHREN ZUR KATALYTISCHEN REINIGUNG VON LEICHTEN KOHLENWASSERSTOFFEN

Title (fr)

PROCEDE CATALYTIQUE DE PURIFICATION DES HYDROCARBURES LEGERS

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Application

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Abstract (en)

[origin: US2007131588A1] The invention relates to a method for the purification of light hydrocarbons having a cut point of between 20 and 250° C. and containing sulphur and/or nitrogen compounds which are refractory to standard hydrotreating. The inventive method is characterised in that it comprises the following steps, namely: (a) a step involving the oxidative polymerisation of compounds containing a -X-CH- group in a 5- or 6 membered hydrocarbon ring, wherein X denotes a sulphur or nitrogen atom, in the presence of at least one oxidising agent selected from metal cations; (b) a step involving the separation of the formed polymers and the oxidising agent from the light hydrocarbons; and (c) a step involving the oxidation of the metal cation, said steps being performed in the above order. Moreover, each of the aforementioned steps can be combined with at least the step following same.

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