

Title (en)

Process for sweetening of petroleum fractions without regular addition of an aqueous alkaline solution, using a solid basic catalyst

Title (de)

Verfahren zum Süssen von Petroleumfraktionen ohne kontinuierliche Beimischung einer wässrigen alkalischen Lösung, unter Verwendung eines basischen Katalysators

Title (fr)

Procédé d'adoucissement en coupes pétrolières sans adjonction régulière de solution aqueuse alcaline, utilisant un catalyseur solide basique

Publication

EP 0638628 B1 19981216 (FR)

Application

EP 93402014 A 19930804

Priority

EP 93402014 A 19930804

Abstract (en)

[origin: EP0638628A1] Process for sweetening a petroleum cut containing mercaptans in which the said petroleum cut is subjected to oxidation conditions by being passed in the presence of air in contact with a porous catalyst, the said process being characterised in that the said catalyst includes from 10 to 98 % by weight of at least one inorganic solid phase consisting of an alkali metal aluminosilicate which has an Si/Al atomic ratio lower than or equal to 5, from 1 to 60 % by weight of active carbon, from 0.02 to 2 % by weight of at least one metal chelate and from 0 to 20 % by weight of at least one inorganic or organic binder, has a basicity determined according to ASTM standard 2896 higher than 20 milliequivalents of potassium hydroxide per gram and a BET total surface greater than 10 m²/g, and contains within its porosity a permanent aqueous phase representing from 0.1 to 40 % by weight of the dry catalyst.

IPC 1-7

C10G 27/10; B01J 31/16

IPC 8 full level

C10G 27/10 (2006.01)

CPC (source: EP)

C10G 27/10 (2013.01)

Cited by

EP0831140A1; FR2753718A1; US6709639B1; US6187173B1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0638628 A1 19950215; **EP 0638628 B1 19981216**; DE 69322636 D1 19990128; DE 69322636 T2 19990506

DOCDB simple family (application)

EP 93402014 A 19930804; DE 69322636 T 19930804