

Title (en)

A non-oxidative catalytic method of sweetening a sour hydrocarbon fraction.

Title (de)

Katalytische nichtoxidatives Verfahren für das Süßsen von Kohlenwasserstofffraktionen.

Title (fr)

Méthode catalytique non oxydant pour l'adoucissement de fractions hydrocarbonées.

Publication

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Application

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Priority

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Abstract (en)

A sour hydrocarbon fraction is sweetened by treating the sour hydrocarbon fraction containing mercaptans with sufficient unsaturated hydrocarbons in the presence of an acid-type catalyst at non-oxidative reaction conditions selected to convert said mercaptans to thioethers. Acid type catalysts which may be used include polymeric sulfonic acid resins, intercalate compounds, solid acid catalysts and acidic inorganic oxide catalysts.

IPC 1-7

C10G 29/06; **C10G 29/20**

IPC 8 full level

C10G 29/06 (2006.01); **C10G 29/20** (2006.01)

CPC (source: EP)

C10G 29/06 (2013.01); **C10G 29/205** (2013.01)

Citation (search report)

- [X] US 3894941 A 19750715 - BERCIK PAUL G, et al
- [Y] US 3340184 A 19670905 - JACKSON ENG, et al
- [A] US 2726991 A 19551213 - ZIMMERSCHIED WILFORD J, et al

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US5863419A; US6059962A; US6024865A; US6048451A; US6599417B2; US6602405B2; WO0014181A1; WO9830655A1

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