

Title (en)

METHOD FOR DESULFURIZING OLEFIN-CONTAINING CHARGE MATERIAL BY CONTROLLING THE OLEFIN CONTENT

Title (de)

VERFAHREN ZUR ENTSCHEFELUNG OLEFINHALTIGER EINSATZSTOFFE DURCH REGELUNG DES OLEFINANTEILS

Title (fr)

PROCÉDÉ DE DÉSULFURATION DE CHARGES DE DÉPART OLÉFINIQUES PAR RÉGULATION DE LA PROPORTION D'OLÉFINE

Publication

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Application

EP 10739852 A 20100707

Priority

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Abstract (en)

[origin: CA2767397A1] The invention relates to a method and a device for desulfurizing an olefin- and hydrogen-containing charge flow, which can be mixed with additional hydrogen, and which is separated into at least two feed flows. The first charge flow is separately introduced into the reactor and impinges on a first catalyst bed comprising the catalyst pellets on a suitable holding device or a grating. There, the charge flow is heated by the hydrogenation reaction. Downstream of the first catalyst bed, an additional charge flow is supplied, thus cooling down the reaction gas and allowing the gas to be conducted through a second catalyst bed. Downstream of the second catalyst bed, further catalyst beds and further charge flow feeding devices may be provided. The catalyst beds may be placed in the reactor in any quantity, type, or shape. By carrying out the reaction in this manner, a product gas is obtained that substantially contains hydrogen sulfide only as a sulfur compound. The temperature in the catalyst beds and the gas flow is controlled by way of the olefin content in the charge flows. The higher the olefin content in a charge flow, the more the gas flow is heated in the downstream catalyst bed by the hydrogenation heat.

IPC 8 full level

C10G 65/00 (2006.01)

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