

Title (en)

METHOD AND APPARATUS FOR DESULPHURISATION OF A SOUR GAS MIXTURE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTSCHWEFELUNG EINES SAUERGASGEMISCHES

Title (fr)

PROCÉDÉ ET APPAREIL POUR LA DÉSULFURATION D'UN MÉLANGE GAZEUX ACIDE

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Application

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Abstract (en)

[origin: EP3984621A1] A method (100) for the desulphurisation of a sour gas mixture is provided, wherein the sour gas mixture is subjected to a free-flame oxidation producing a process gas containing sulphur dioxide, and wherein the process gas is at least in part subjected to a catalytic conversion converting the sulphur dioxide at least in part to elementary sulphur, the sour gas mixture being subjected to the free-flame oxidation in a first amount per time unit in a first mode of operation and in a second amount per time unit not exceeding a third of the first amount per time unit in a second mode of operation, and the free-flame oxidation being performed using an oxydant stream with an oxygen content exceeding that of atmospheric air in the first mode of operation. The free-flame oxidation is performed using the oxydant stream with the oxygen content exceeding that of atmospheric air in the second mode of operation, and heat is supplied by combusting a fuel stream other than the sour gas mixture in the second mode of operation. A corresponding apparatus is also part of the invention.

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