

Title (en)

METHOD AND DEVICE FOR REMOVING SULPHUR DIOXIDE FROM A DRY GAS STREAM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ENTFERNEN VON SCHWEFELDIOXID AUS EINEM TROCKENEN GASSTROM

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT D'ELIMINER LE DIOXYDE DE SOUFRE D'UN FLUX DE GAZ SEC

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2007025948A1] The invention relates to a method for removing sulphur dioxide from a dry gas stream which comprises the following steps: (a) admixing a liquid comprising hydrogen peroxide into the gas stream, where sulphuric acid forms from the hydrogen peroxide and the sulphur dioxide, and (b) condensing, absorbing or aerosol-precipitating the sulphuric acid formed. The admixed liquid comprising hydrogen peroxide is mixed with the dry gas stream in less than 0.3 s so that the admixed liquid is essentially homogeneously distributed in the gas stream. In addition, the invention relates to a device for removing sulphur dioxide from a dry gas stream which comprises at least one atomizer nozzle for adding the liquid comprising hydrogen peroxide and a filter or aerosol precipitator arranged in the direction of flow of the gas stream behind the at least one atomizer nozzle, where in each case at least one atomizer nozzle is arranged on a cross sectional area of from 300 to 350 cm².

IPC 8 full level

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