

Title (en)

DEVICE FOR THE SORPTIVE SEPARATION OF A GAS FLOW WITH A VORTEX TUBE FOR REGENERATION

Title (de)

VORRICHTUNG ZUM SORPTIVEN TRENNEN EINES GASSTROMS MIT EINEM WIRBELROHR ZUR REGENERIERUNG

Title (fr)

DISPOSITIF DE SÉPARATION PAR SORPTION D'UN COURANT GAZEUX, PRÉSENTANT UN TUBE VORTEX POUR LA RÉGÉNÉRATION

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Application

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Abstract (en)

[origin: WO2010081716A1] The invention relates to a device for the sorptive separation of a gas (1), comprising at least one sorption container (1, 2) that is filled with a sorbent and inlet and outlet lines through which the gas flow to be separated is directed in a sorption phase of the sorption container for separation by the sorbent and through which a portion of the separated gas flow (regeneration gas flow) is directed for regeneration of the sorbent in a regeneration phase of the sorption container, wherein, prior to the regeneration of the sorbent in a vortex tube (4), the regeneration gas flow is separated into a hot regeneration gas flow (V) and a cold regeneration gas flow (VI) and at least the hot regeneration gas flow is used for the regeneration of the sorbent.

IPC 8 full level

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Citation (search report)

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