

Title (en)

A SYSTEM AND APPARATUS FOR REMOVAL OF UNWANTED SUBSTANCES IN A GAS FLOW

Title (de)

SYSTEM UND VORRICHTUNG ZUM ENTFERNEN VON UNERWÜNSCHTEN STOFFEN IN EINER GASSTRÖMUNG

Title (fr)

SYSTEME ET DISPOSITIF POUR ELIMINER DES SUBSTANCES INDESIRABLES CONTENUES DANS UN FLUX GAZEUX

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004054688A1] The present invention relates to a system and an apparatus for removal of unwanted substances in a gas flow (1) comprising a number of purification modules, each module comprising a hydrophobic membrane (3), a mixing container (10), and a solvent fluid, where the substances in the gas flow (1) are diffused through the hydrophobic membrane (3) and are absorbed in the solvent fluid, and where the purified gas flow (11) is led to either a further purification module or to the surrounding environment, wherein the solvent fluid either is an alkaline solvent fluid or an acid solvent fluid, where said solvent fluids circulate between said hydrophobic membrane (3) and said mixing container (10), and where either concentrated acid or alkaline fluids are added to said solvent fluid in the mixing container (10) in order to maintain a substantially constant pH value in the solvent fluid. The invention furthermore relates to methods for removing ammonium from a biogas process, for cleaning an air flow, and for drying waste.

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Citation (search report)

See references of WO 2004054688A1

Citation (examination)

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