

Title (en)  
METHOD AND DEVICE FOR THE DESORPTION OF LOADED AMINE-CONTAINING DETERGENT SOLUTIONS FROM GAS SCRUBBING PROCESSES

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR DESORPTION BELADENER AMINHALTIGER WASCHMITTELLÖSUNGEN AUS GASWASCHPROZESSEN

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE DÉSORPTION DE SOLUTIONS DÉTERGENTES AMINÉES CHARGÉES PROVENANT DE PROCESSUS DE LAVAGE DE GAZ

Publication  
**EP 2588216 A2 20130508 (DE)**

Application  
**EP 11745938 A 20110630**

Priority  
• DE 102010025819 A 20100701  
• EP 2011061054 W 20110630

Abstract (en)  
[origin: WO2012001125A2] The invention relates to a method and device for regenerating loaded amine-containing detergent solutions from gas scrubbing processes of gases such as biogases, waste gases from chemical processes or associated petroleum gases in which CO<sub>2</sub> and/or sulfur compounds are present in chemically bound form. The detergent solution is heated to 20 - 96°C, brought in contact with a flush gas and stripped over 3 to 180 minutes and after separation of the flush gas component said detergent solution is fed as a condensate to a membrane or similar separating unit, where the non-condensed flush gas component is separated. The condensed flush gas is evaporated again and circulated back into the circuit. The desorption is very effective and nearly complete, and because of the low heating temperature, technical low-temperature sources can be used such as co-generation plant cooling water waste heat, solar heat, geothermal heat, industrial waste heat and/or process heat.

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