

Title (en)  
ABSORBENT, PROCESS FOR PRODUCING AN ABSORBENT, AND PROCESS AND DEVICE FOR SEPARATING OFF HYDROGEN SULPHIDE FROM AN ACIDIC GAS

Title (de)  
ABSORPTIONSMITTEL, VERFAHREN ZUR HERSTELLUNG EINES ABSORPTIONSMITTELS, SOWIE VERFAHREN UND VORRICHTUNG ZUR ABTRENNUNG VON SCHWEFELWASSERSTOFF AUS EINEM SAUREN GAS

Title (fr)  
AGENT ABSORBANT, PROCÉDÉ POUR LE FABRIQUER, AINSI QUE PROCÉDÉ ET DISPOSITIF DE SÉPARATION DE SULFURE D'HYDROGÈNE D'AVEC UN GAZ ACIDE

Publication  
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Application  
**EP 14707959 A 20140218**

Priority  
• DE 102013206721 A 20130415  
• EP 2014053059 W 20140218

Abstract (en)  
[origin: WO2014170047A1] The invention relates to an absorbent which comprises a dissolved amino acid salt and a dissolved metal. The absorbent is brought into contact with the acidic gas in an absorber. In the absorber, the H<sub>2</sub>S converts from the gas phase to the liquid phase. In addition, carbon dioxide (CO<sub>2</sub>) is likewise absorbed from the gas as a function of the contact time. The washing solution is passed from the absorber to a regeneration tank. In the regeneration tank, the solution is gassed with air, oxygen (O<sub>2</sub>)-enriched air or with pure O<sub>2</sub>. By introducing O<sub>2</sub> into the solution, the H<sub>2</sub>S already present in the solution is reacted over the dissolved metal catalyst. After the regeneration, possible solids are separated off and the regenerated washing solution is returned to the absorber.

IPC 8 full level  
**B01D 53/14** (2006.01); **C01B 17/05** (2006.01); **C02F 1/72** (2006.01); **C10L 3/10** (2006.01)

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Citation (search report)  
See references of WO 2014170047A1

Citation (examination)  
• EP 0242938 A2 19871028 - DOW CHEMICAL CO [US]  
• US 2010186590 A1 20100729 - VORBERG GERALD [DE], et al

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