

Title (en)
METHOD FOR UPGRADING BIOGAS AND PRODUCTION OF AMMONIUM SULPHATE

Title (de)
VERFAHREN ZUR AUFBEREITUNG VON BIOGAS UND HERSTELLUNG VON AMMONIUMSULFAT

Title (fr)
PROCÉDÉ DE VALORISATION DE BIOGAZ ET DE PRODUCTION DE SULFATE D'AMMONIUM

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Application
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Abstract (en)
[origin: WO2016012309A1] The present invention relates to a method for upgrading biogas and production of ammonium sulphate, comprising the steps of : condensing a biogas by contacting the biogas with cooling medium to produce biogas with a reduced water content; pressurizing the biogas with a reduced water content to a pressure of about 5 to 25 bar to produce pressurized biogas; leading the pressurized biogas over a molecular sieve to separate hydrogen sulfide and to produce pseudo gas; leading the separated hydrogen sulfide to an incinerator / quencher and heating the hydrogen sulfide to a temperature above 700°C and quenching the heated hydrogen sulfide with water to produce sulphuric acid; and bringing the sulphuric acid in contact with ammonia to produce ammonium sulphate.

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