

Title (en)

METHOD FOR MANUFACTURING AMMONIUM SULPHATE AND CALCIUM CARBONATE FROM PHOSPHOGYPSUM

Title (de)

VERFAHREN ZUR HERSTELLUNG VON AMMONIUMSULFAT UND CALCIUMCARBONAT AUS PHOSPHORGIPS

Title (fr)

PROCÉDÉ DE FABRICATION DE SULFATE D'AMMONIUM ET DE CARBONATE DE CALCIUM A PARTIR DE PHOSPHOGYPSE

Publication

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Application

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Abstract (en)

[origin: WO2022025742A1] The invention relates to a method for manufacturing ammonium sulphate and calcium carbonate from phosphogypsum, characterised in that it comprises the following steps: - dispersing phosphogypsum in water to form a phosphogypsum liquid suspension, - sparging gaseous carbon dioxide and gaseous ammonia in the phosphogypsum liquid suspension to precipitate calcium carbonate, - filtering the phosphogypsum liquid suspension to produce a filtrate comprising ammonium sulphate, and a solid residue comprising the calcium carbonate precipitate, - evaporating the filtrate to produce ammonium sulphate and drying the solid residue to produce calcium carbonate.

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