

Title (en)  
METHOD AND APPARATUS FOR PURIFYING A POLLUTED MEDIUM

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR REINIGUNG EINES VERUNREINIGTEN MEDIUMS

Title (fr)  
PROCEDE ET DISPOSITIF PERMETTANT L'EPURATION D'UN MILIEU POLLUE

Publication  
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Application  
**EP 02762266 A 20020712**

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Abstract (en)  
[origin: WO03006384A1] The invention concerns a method and an apparatus for purifying a polluted medium containing ammonium, where the medium in a first chemical process is supplied with at least a first reagent, causing a chemical reaction between the ammonium in the medium and added reagents, which results in precipitation of at least a first ammonium-containing salt, where a subsequent second mechanical process separates medium from precipitation products. The purpose of the invention is to remove ammonium from a polluted medium and simultaneously produce a nitrogenous product that may be recycled. This may be achieved in that precipitation products are decomposed into a precipitate and ammonium in a third liquid based thermo-chemical process in which the precipitate and ammonium are released to the surrounding liquid, where the precipitate is recirculated to the first chemical process, where the precipitate is used as the first reagent. Hereby is achieved that a reagent may be reused and form part of the same process again. At the same time, great resource savings are attained by using the method. Nitrogenous products are formed at the same time by the process.

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