

Title (en)  
LIGNOCELLULOSE SPINNING SOLUTION, LIGNOCELLULOSE REGENERATED FIBRE, AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
LIGNOCELLULOSE-SPINNUNG, LIGNOCELLULOSE-REGENERATFASER SOWIE VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)  
SOLUTION DE FILAGE DE LIGNOCELLULOSE, FIBRES RÉGÉNÉRÉES DE LIGNOCELLULOSE AINSI QUE PROCÉDÉ DE PRODUCTION DESDITES FIBRES

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Application  
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Abstract (en)  
[origin: WO2013144082A1] The invention relates to a lignocellulose spinning solution, regenerated fibres made of lignocellulose, and a method for the production thereof. The method according to the invention makes it possible for the first time for lignocellulose to be processed into fibres without previous chemical separation methods for removing substances accompanying the cellulose, such as lignin and hemicellulose, or thermomechanical pretreatment of the raw material. The invention uses specially adapted ionic fluids of the imidazole type as solvents for lignocellulose from various origins. From the nearly homogeneous spinning solutions produced therefrom, it is possible using commercial spinning apparatuses to obtain stable filaments with mechanical parameters comparable to those which can be obtained by commercial cellulose spinning methods. Neither expensive acquisition of cellulose nor thermal and/or chemical pretreatment of the wood raw material is necessary in this case.

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See references of WO 2013144082A1

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