

Title (en)

METHOD AND DEVICE FOR THE PRODUCTION OF CELLULOSE FIBRES AND CELLULOSE FILAMENT YARNS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON CELLULOSEFASERN UND CELLULOSEFILAMENTGARNEN

Title (fr)

PROCEDE ET DISPOSITIF DE FABRICATION DE FIBRES CELLULOSIQUES ET DE FILAMENTS CONTINUS CELLULOSIQUES

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Application

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Abstract (en)

[origin: WO02072929A1] The invention relates to a method for the production of cellulose fibres or cellulose filament yarns from pulp by the dry and wet extrusion method with aqueous amine oxides as solvent, whereby, a) a dispersion of pulp and aqueous amine oxide is transformed into a homogeneous solution with a relaxation time in the range 0.3-90 s at 85 DEG C by water removal and shearing, b) the solution is introduced into a spinning packet with at least one spinning nozzle (6) by means of a spinning solution feed (3), c) the solution is passed through a filter (4), a support plate (1) a flow chamber (5.1) and into at least one spinning capillary of at least one spinning nozzle (6) in the spinning packet, d) the solution strands moulded into capillaries are fed through a non-precipitating medium with further drawing and blown with a gas stream approximately perpendicularly to the filament running direction, just before entry into the precipitation bath, the cellulose precipitates in the precipitation bath and e) the cellulose fibres are withdrawn from the precipitating bath by directional change and the fibres drawn off. The invention further relates to a device for the production of cellulose fibres or filament yarns by the wet and dry extrusion method with aqueous amine oxides as solvent, comprising a solution feed (3) and a spinning packet with a sieve filter packing (4), support plate (1), flow chamber (5.1) and spinning nozzle(s) (6), working according to said method.

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