

Title (en)
DEVICE FOR CONTINUALLY PRODUCING AN EXTRUSION SOLUTION

Title (de)
VORRICHTUNG ZUR KONTINUIERLICHEN HERSTELLUNG EINER EXTRUSIONSLÖSUNG

Title (fr)
DISPOSITIF DE PREPARATION CONTINUE D'UNE SOLUTION D'EXTRUSION

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Application
EP 00979394 A 20000929

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Abstract (en)
[origin: WO0127161A1] The invention relates to a method for continually producing an extrusion solution for producing cellulosid shaped bodies, such as fibres and films, according to the lyocell method. According to the inventive method, (a) a cellulose suspension is produced from cellulose and an aqueous phase in a mass ratio ranging from 1:3 to 1:40, whereby shearing is maintained for between 5 to 200 minutes. (b) The cellulose suspension is dewatered to form a material having a cellulose content ranging from 20 to 80 mass % and the aqueous phase produced thereby is at least partially returned to step (a). (c) The humid cellulose material being homogenised is transported through a first shearing zone in the absence of N-methylmorpholine-N-oxide. (d) The cellulose material is transported through a second shearing zone after sufficient aqueous N-Methylmorpholine-N-oxide has been added to the homogenised cellulose material so that, after mixing, a suspension having a N-Methylmorpholine-N-oxide content ranging from 70 to 80 mass % in the liquid phase is obtained. The cellulose material or the suspension completely fills in the available cross-section of transport in the shearing zones and (e) the produced cellulose suspension being sheared is converted into the extrusion solution in aqueous N-Methylmorpholine-N-oxide, whereby water evaporates.

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