

Title (en)
METHOD FOR FRACTIONATING AN AQUEOUS PAPER FIBRE SUSPENSION AND HYDROCYCLONE FOR CARRYING OUT SAID METHOD

Title (de)
VERFAHREN ZUM FRAKTIONIEREN EINER WÄSSRIGEN PAPIERFASERSUSPENSION SOWIE HYDROZYKLON ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCEDE POUR FRACTIONNER UNE SUSPENSION AQUEUSE DE FIBRES A PAPIER ET HYDROCYCLONE POUR LA MISE EN OEUVRE DUDIT PROCEDE

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Abstract (en)
[origin: WO2006032427A1] The invention relates to a method and to a device which is used to fraction aqueous paper fibre suspensions (S). Relatively large centrifugal forces are used, also in suspension components having essentially the same densities, in order to achieve good results. This is achieved by virtue of the fact that the paper fibre suspension (S) entering via the inlet (10) is guided initially in a first annular chamber (4) which narrows in an axial direction (4) and subsequently in a second annular chamber (5) which widens in an axial direction. As a result, good fractionating results can be obtained, in particular, when the fibre material consistency in the inlet area is approximately 0.5 - 2 % and also the necessary mass fluxes are maintained at a relatively low level. Said method can be used, for example, for fractionating fresh cellulose and/or wood pulp. It can also be used in the preparation of used paper, wherein said method is particularly economical.

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