

Title (en)

IMPROVED RECOVERY OF FINE FIBERS FROM SUSPENSIONS CONTAINING FIBERS AND CONTAMINANTS

Title (de)

VERBESSERTE RÜCKGEWINNUNG VON DÜNNEN FASERN AUS SUSPENSIONEN VON FASERN UND VERUNREINIGUNGEN

Title (fr)

AMELIORATION DE LA RECUPERATION DE FIBRES FINES DE SUSPENSIONS CONTENANT CES FIBRES ET DES POLLUANTS

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Application

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Abstract (en)

[origin: WO9732079A1] There is disclosed herein methods and apparatuses for the improved recovery of fine fibers from a feed suspension consisting of long fibers, medium fibers, fine short fibers, contaminants and liquid carrier. In the preferred embodiment, a feed suspension is provided to a first filter in which it is separated into first and second fractions. The first fraction consists of fine fibers, contaminants and liquid carrier which have passed through the first filter. The second fraction consists of fibers, fine fibers and liquid carrier which have been retained on the surface of the first filter. The second fraction is then removed from the first filter for further processing or use in the paper-making process. The first fraction is then provided to a second device for separation into third and fourth fractions. The third fraction consists of fine fibers and liquid carrier which do not pass through the second filter. The fourth fraction consists of contaminants and liquid carrier which pass through the second filter. The third fraction represents fine fibers which would otherwise have been lost in the production process. The third fraction is then returned to the first filter at a location wherein the second fraction has formed. The fiber mat which forms the second fraction assists the first filter in retaining the fine fibers present in the third fraction while the liquid carrier passes through the second fraction and first filter and into the first fraction once again.

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