

12 **EUROPEAN PATENT APPLICATION**

21 Application number: 82109117.0

51 Int. Cl.³: D 21 F 1/20

22 Date of filing: 02.10.82

30 Priority: 05.10.81 US 308919
03.08.82 US 404651

43 Date of publication of application:
11.05.83 Bulletin 83/19

88 Date of deferred publication of search report: 10.10.84

84 Designated Contracting States:
AT CH DE FR GB IT LI NL SE

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54 **Method and apparatus for stock deflocculation on the Fourdrinier machine wire.**

57 Paper stock (21) is deflocculated on the machine wire (11) by laying down a ridged layer of stock (21) and phase-shifting the ridges without substantial dewatering. This phase shifting creates cross-machine direction (MCD) mass transfer of the stock and deflocculating CMD shear forces within it. Apparatus comprises a serrated slice (20) or other means for delivering ridged-stock (21) to the wire (11) in combination with a series of foil blades (12) beneath the machine wire adjacent to the headbox, each blade (12) having a recessed

land (15) inclined first downward and then upward in the direction of machine motion and with substantially no dewatering of the stock on the wire until the stock reaches a location downward from the blades, causing water to be repeatedly drawn through the wire and directed upwardly by the inclined land, causing phase shifting of the ridges and hence CMD shear and significant deflocculation before any web formation occurs.

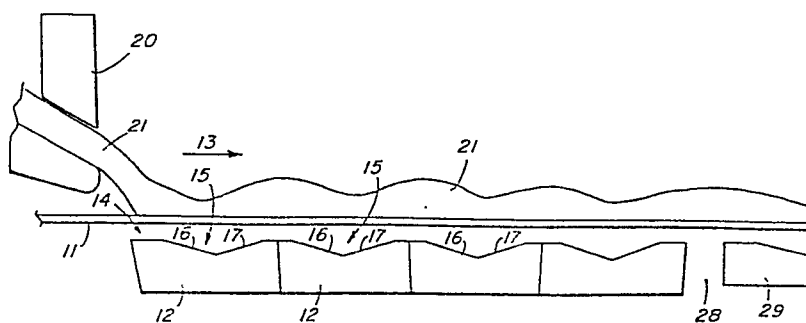


FIG. 1



EP 82109117.0

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
A	AT - B - 295 989 (J.M. VOITH) * Fig. 1; page 1 * --	1,8	D 21 F 1/48 D 21 F 1/20
A	FR - A1 - 2 243 403 (INOTECH) * Fig. 1,2, belonging text * --	1,8	
A,D	US - A - 3 874 998 (JOHNSON) * Fig. 3-6; abstract * --	1,8	
A,D	US - A - 3 573 159 (SEPALL) * Totality * -----	1,8	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 7)
			D 21 F 1/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 06-07-1984	Examiner HOFMANN
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			