

12

EUROPEAN PATENT APPLICATION

21 Application number: **86302337.0**

51 Int. Cl.⁴: **D 21 F 1/80**

22 Date of filing: **27.03.86**

30 Priority: **29.03.85 US 717757**

71 Applicant: **THE BLACK CLAWSON COMPANY, 605 Clark Street, Middletown, Ohio 45042 (US)**

43 Date of publication of application: **15.10.86**
Bulletin 86/42

72 Inventor: **Kinne, Michael F., 404 Kerry Street, Trenton Ohio 45067 (US)**

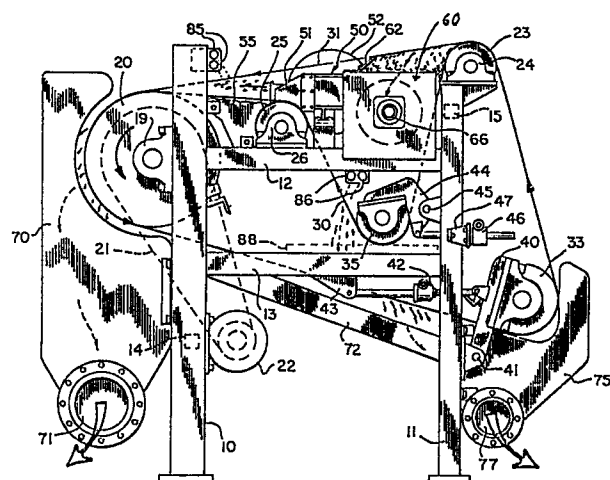
84 Designated Contracting States: **DE FR GB**

88 Date of deferred publication of search report: **06.07.88 Bulletin 88/27**

74 Representative: **Warren, Anthony Robert et al, BARON & WARREN 18 South End Kensington, London W8 5BU (GB)**

54 **Apparatus and method for thickening pulp and paper stock.**

57 Apparatus for thickening a suspension of paper making pulp in water employs a pair of endless perforate belts (30, 31), referred to as wires since they are like paper machine forming wires – one inside the other – which at the inlet end of the apparatus are trained around two spaced rolls (23, 25) from which they converge to wrap a third roll (20) and thereby define a generally V-shaped horizontally extending space into which the stock to be thickened is delivered by a headbox (50) positioned between the two wires. The resulting sandwich of wire-pulp-wire is then caused to wrap the major portion of the third roll (20) so that it reverses its direction and then travels around additional rolls (33, 23) until it completes the major part of a loop, during which travel, drainage through the outside wire (31) takes place. When the sandwich reaches this position, the wires separate, pass in diverging relation above and below a trough (60) in which the thickened pulp is collected, above and below the headbox (50), and then reconverge to continue the operation.





European Patent
Office

EUROPEAN SEARCH REPORT

0197731

Application number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 86302337.0
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	<u>AT - B - 325 938</u> (NORDSTJERNAN) * Totality * --	1-7	D 21 F 1/80
A	<u>DE - A1 - 3 020 119</u> (ENVIROTECH) * Fig. 1, belonging text * --	1	
A	<u>DE - A1 - 3 005 681</u> (ESCHER WYSS GMBH) * Fig.; abstract * ----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			D 21 B D 21 D D 21 F
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 18-04-1988	Examiner HOFMANN
CATEGORY OF CITED DOCUMENTS 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		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	