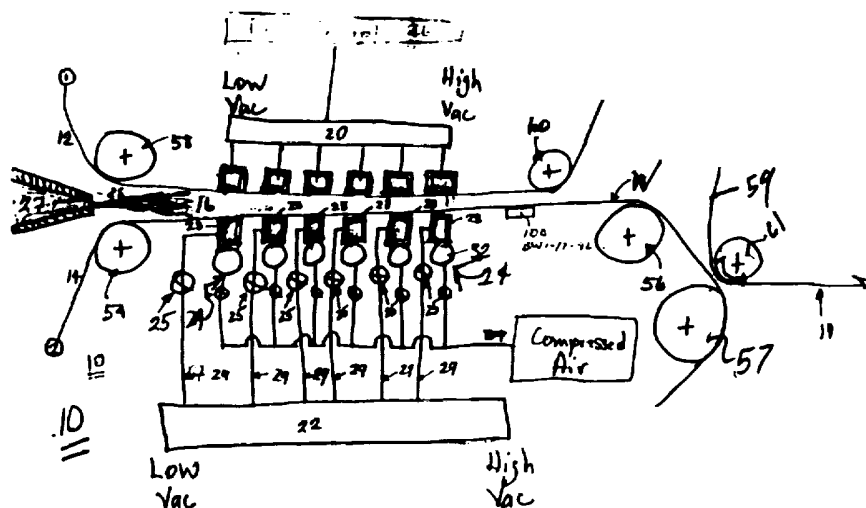




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(54) Title: TWIN-WIRE FORMER WITH SIMULTANEOUS DRAINAGE SUCTION BOXES



(57) Abstract

An adjustable twin-wire gap former (10) is provided for forming a fiber web from an aqueous fiber suspension. The twin-wire gap former is arranged so that the first (12) and second (14) coating, traveling, looped forming wires having juxtaposed sections, which define a forming zone (16) and confine a paper web therebetween during its formation. A first means (20) for providing suction is located adjacent the first wire fabric (12) in the forming zone (16) for draining water from the suspension and a second means for providing suction is located adjacent the second wire fabric in the forming zone (16). This second means (22) for providing suction is movable toward and away from the second wire (14) thus adjusting the geometry of the forming zone (16). Preferably a central operator controls the vacuum in the suction boxes and the pressure exerted by the boxes onto the forming fabric independently of each other.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US93/09863

A. CLASSIFICATION OF SUBJECT MATTER

IPC(5) : D21F 1/00; 1/48; 1/52

US CL : 162/203, 301, 374

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 162/203, 300, 301, 352, 374

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US,A, 5,167,770 (BUBIK ET AL) 01 December 1992 (Figs 1-3, 5, 6, col 3 lines 40-63, col 4 line 55-63)	1-14
Y	US,A, 3,595,744, (SKOLDVIST) 27 July 1971, (Figs 1, 3, col 1 lines 15-27, col 4 lines 53-61, col 5 lines 34-47)	1-14
Y	US,A, 5,045,153, (SOLLINGER ET AL) 03 September 1991 (Fig 1, col 2 lines 39-54)	7-14
A	US,A 4,790,909, (HARWOOD) 13 December 1988	1-14
A	US,A, 4,769,111, (NEVALAINEN ET AL) 06 September 1988	1-14

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International application No.
PCT/US93/09863

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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