

Title (en)

Multi-ply web former and method.

Title (de)

Verfahren und Vorrichtung zur Herstellung von Mehrschichtenpapier.

Title (fr)

Procédé et dispositif de formation d'un papier à plusieurs couches.

Publication

EP 0465698 A1 19920115 (EN)

Application

EP 90113178 A 19900710

Priority

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Abstract (en)

A multi-ply paper web is formed by bringing a top ply liner (WT) into ply-bonding engagement with a base ply web (WB) traveling on a base ply forming wire (36). The top ply liner is formed between two co-running forming wires (10, 20) in a convex upwardly/concave downwardly curved, substantially horizontal forming zone. Dewatering in the forming zone is effected by applying sub-atmospheric air pressure solely beneath the lower surface of the top ply liner (WT) being formed. Water is removed from the upper surface of the top ply liner (WT) solely by wire tension, gravity and centrifugal force created by passing the co-running forming wires over the convex upwardly curved path of travel. This permits a greater concentration of pulp stock fines to remain in the upper surface of the top ply liner to effect greater ply-bonding affinity with the base ply when the two plies are brought together and bonded.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

D21F 9/003 (2013.01); **D21F 11/04** (2013.01)

Citation (search report)

- [X] FR 2388936 A1 19781124 - VALMET OY [FI]
- [A] FR 2418298 A1 19790921 - VOITH GMBH [DE]
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- [A] FR 2072936 A5 19710924 - WALMSLEYS BURY LTD

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Designated contracting state (EPC)

DE DK FR GB IT SE

DOCDB simple family (publication)

EP 0465698 A1 19920115; AU 657691 B2 19950323; AU 8213991 A 19920204; BR 9106629 A 19930601; CA 2087013 C 19950117; FI 930080 A0 19930108; FI 930080 A 19930108; JP H05507970 A 19931111; JP H0823117 B2 19960306; KR 100191140 B1 19990615; PL 167967 B1 19951230; PL 297609 A1 19920713; WO 9201111 A1 19920123; ZA 915311 B 19920429

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EP 90113178 A 19900710; AU 8213991 A 19910704; BR 9106629 A 19910704; CA 2087013 A 19910704; EP 9101255 W 19910704; FI 930080 A 19930108; JP 51163291 A 19910704; KR 930700044 A 19930108; PL 29760991 A 19910704; ZA 915311 A 19910709