

Title (en)  
Transfer belt for a paper machine

Title (de)  
Transferband für eine Papiermaschine

Title (fr)  
Bande de transfert pour une machine à papier

Publication  
**EP 1069235 A1 20010117 (DE)**

Application  
**EP 99113193 A 19990708**

Priority  
EP 99113193 A 19990708

Abstract (en)  
The transfer belt, for a papermaking machine, has a carrier (2) with a coating (3,5) on at least one of its flat surfaces. The coating has an inner layer (3) and an adjacent outer layer (5) with a porous structure comprising hollow zones open to the outer surface. The inner coating layer (3) is impermeable to fluids, and has longitudinal and/or pressure elasticity. The carrier (2) has a specific longitudinal module of  $\leq 70$  N/tex. The carrier material has an elasticity on draw tensions of 4-8 daN per cm of carrier (2) width. The carrier (2) material is woven, knitted, yarn layers or a fiber nonwoven, or combinations of material structures. The carrier (2) is at least partially embedded with the inner layer of the coating (3,5). The inner coating layer (3) has a hardness of 85-95 Shore A, and contains inorganic filling particles. The inner coating layer (3) has a thickness tolerance of max. 100 microns. The hollow zones in the outer coating layer (5) have an average dia. of  $\leq 200$  microns. The outer surface of the outer coating layer (5) contains nano particles, at least partially of SiO<sub>2</sub>, or fluorocarbon chains. The outer surface of the outer coating layer (5) has a prepolymer emulsion, hardened by electron beam treatment. The outer surface of the outer coating layer (5) is of materials which form local and different hydrophilic or hydrophobic zones. The outer coating layer has a thickness of  $\leq 3$  mm and the inner coating layer thickness is 1-3 mm.

Abstract (de)  
Ein Transferband für eine Papiermaschine weist einen Träger (2) und eine Beschichtung (3, 5) auf wenigstens einer Flachseite auf. Erfindungsgemäß weist die Beschichtung eine Innenschicht (3) und eine dazu benachbarte Außenschicht (5) auf, die eine porige Struktur mit zur Außenseite (6, 11, 15) hin offenen Hohlräumen (8, 12, 14) hat. <IMAGE>

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**D21F 1/00**

IPC 8 full level  
**D21F 1/00** (2006.01)

CPC (source: EP)  
**D21F 1/0063** (2013.01)

Citation (applicant)  
EP 0576115 A1 19931229 - ALBANY INT CORP [US]

Citation (search report)  
• [DA] EP 0576115 A1 19931229 - ALBANY INT CORP [US]  
• [DA] EP 0786551 A1 19970730 - MUNZINGER CONRAD & CIE AG [CH]  
• [A] EP 0547816 A1 19930623 - ALBANY INT CORP [US]

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