

Title (en)
Transport belt

Title (de)
Transportband

Title (fr)
Bande de transport

Publication
EP 1798339 A1 20070620 (DE)

Application
EP 06122504 A 20061018

Priority
DE 102005060525 A 20051217

Abstract (en)

The transport belt (1) for a paper-, cardboard- or tissue processing machine, comprises a load receiving support structure (3), which is completely covered by a polymer surface structure (4) in section-wise manner. The polymer surface structure and the support structure contact themselves directly or indirectly in section-wise manner. A contact area (5) between the support structure and the polymer surface structure includes sections, in which the support structure is moved itself relative to the polymer surface structure. A separating layer (6) is arranged in the contact area. The transport belt (1) for a paper-, cardboard- or tissue processing machine, comprises a load receiving support structure (3), which is completely covered by a polymer surface structure (4) in section-wise manner. The polymer surface structure and the support structure contact themselves directly or indirectly in section-wise manner. A contact area (5) between the support structure and the polymer surface structure includes sections, in which the support structure is moved itself relative to the polymer surface structure. A separating layer (6) is arranged in the contact area. The support structure in the sections receives no adhesive connection with the polymer surface structure. The support structure comprises a fabric, thread arrangement and thread woven fabric. The threads of the support structure are covered with the separating layer in section-wise manner. The separating layer has a material, by which the frictional resistance is reduced in the contact area. The separating layer has wax, starch, oil and silicone. A second surface of the polymer surface structure arranged opposite to the first surface forms the side of the transport belt, which is bringable in contact with the material web. The support structure and the polymer surface structure are immovable relative to each other in the sections of the contact area extending itself in the transverse direction of the transport belt, and are movable relative to each other in the sections of the contact area extending itself in the longitudinal direction of the transport belt. The transport belt is impermeable to the fluid.

Abstract (de)

Die Erfindung betrifft ein Transportband (1) für eine bahnverarbeitende Maschine, insbesondere Papier-, Karton- oder Tissuemaschine, mit einer Last aufnehmenden Trägerstruktur (3), welche zumindest abschnittsweise von einer polymeren Flächenstruktur (4) ummantelt wird, wodurch sich die polymere Flächenstruktur (4) und die Trägerstruktur (3) abschnittsweise mittelbar oder unmittelbar kontaktieren. Die Erfindung ist dadurch gekennzeichnet, dass der Kontaktbereich zwischen der Trägerstruktur (3) und der polymeren Flächenstruktur (4) Abschnitte umfasst, in denen sich die Trägerstruktur relativ zur polymeren Flächenstruktur bewegen kann. Diese können zum Beispiel durch eine Trennlage (6) gebildet sein.

IPC 8 full level
D21F 3/02 (2006.01)

CPC (source: EP US)
D21F 3/0227 (2013.01 - EP US); **Y10T 442/20** (2015.04 - EP US)

Citation (applicant)
• EP 1561860 A1 20050810 - TAMFELT OYJ ABP [FI]
• US 2005003724 A1 20050106 - FITZPATRICK KEITH [NL]
• EP 0859082 A2 19980819 - VOITH SULZER PAPIERMASCH GMBH [DE]

Citation (search report)
• [A] EP 1561860 A1 20050810 - TAMFELT OYJ ABP [FI]
• [A] US 2005003724 A1 20050106 - FITZPATRICK KEITH [NL]
• [A] EP 0859082 A2 19980819 - VOITH SULZER PAPIERMASCH GMBH [DE]
• [A] GB 2147632 A 19850515 - TAMFELT OY AB

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