

Title (en)

Belt for a production machine for sheet material and method for manufacturing such a belt

Title (de)

Band für eine Maschine zur Herstellung von Bahnmaterial und Verfahren zur Herstellung eines derartigen Bands

Title (fr)

Bande pour une machine destinée à la fabrication de matériaux en bande et procédé de fabrication d'une telle bande

Publication

EP 2072667 A1 20090624 (DE)

Application

EP 08161408 A 20080730

Priority

US 1581607 P 20071221

Abstract (en)

The belt (10) has fiber material layers (20, 22, 24, 26) i.e. thin fleece layers, fixedly connected with a carrying structure (12) e.g. fabric. The fiber material layers contain a polymer material i.e. polyurethane material, that covers the fibers of the fiber material layers partially as a polymer film. The content of the polymer material in the fiber material layers is different. The fiber material layers, whose fibers are covered with the polymer film, exhibit a permeability of maximum 7 cubic feet per minute. An independent claim is also included for a method for producing a belt for producing a sheet material.

Abstract (de)

Ein Band für eine Maschine zur Herstellung von Bahnmaterial, insbesondere Papier oder Karton, umfassend eine Tragestruktur (12) und an einer zur Bahnmaterialkontaktfläche des Bandes weisenden Seite (18) der Tragestruktur (12) zumindest eine mit der Tragestruktur (12) fest verbundenen Lage (20, 22, 24, 26) aus Fasermaterial, welche Polymermaterial (32) enthält, das Fasern dieser Lage (20, 22, 24, 26) wenigstens teilweise als Polymerfilm überzieht.

IPC 8 full level

D21F 1/00 (2006.01); **D21F 7/08** (2006.01)

CPC (source: EP US)

D21F 1/0036 (2013.01 - EP US); **D21F 7/083** (2013.01 - EP US); **Y10T 428/24124** (2015.01 - EP US)

Citation (search report)

- [E] WO 2008122461 A1 20081016 - VOITH PATENT GMBH [DE], et al
- [X] EP 1757728 A1 20070228 - VOITH PATENT GMBH [DE]
- [X] WO 2004085727 A2 20041007 - VOITH FABRICS PATENT GMBH [DE], et al
- [X] WO 03091498 A1 20031106 - TAMFELT OYJ ABP [FI], et al
- [X] US 4439481 A 19840327 - JOHNSON CARY P [US], et al
- [X] US 4267227 A 19810512 - SCHIHER STANLEY C, et al

Cited by

EP2267221A1; US8496785B2; WO2011036164A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2072667 A1 20090624; US 2009169804 A1 20090702

DOCDB simple family (application)

EP 08161408 A 20080730; US 33956409 A 20090320