Title (en)

SEAMED FELT FOR PAPERMAKING

Title (de)

NAHTFILZ ZUR PAPIERHERSTELLUNG

Title (fr)

FEUTRE A COUTURE POUR FABRICATION DE PAPIER

Publication

EP 2006444 A2 20081224 (EN)

Application

EP 07741814 A 20070411

Priority

- JP 2007058378 W 20070411
- JP 2006131921 A 20060411

Abstract (en)

A papermaking seamed felt 10 of the present invention comprises a base layer 30 having a seam part, a wet paper web side batt fiber layer 20 formed on the wet paper web side surface of said base layer, and a press side batt fiber layer 21 formed on the press side surface thereof, wherein said wet paper web side batt fiber layer 20 having a core-in-sheath fiber 41 comprising a core member made of high-molecular-weight nylon with an absolute viscosity of 80mPa·s or more and a sheath member made of nylon with a lower melting point than the core member. A net-shaped fiber layer is formed with melted sheath members of the core-in-sheath fiber 41, which makes the wet paper web side batt fiber layer 20 dense. As a result, the wet paper web side batt fiber layer 20 works as a barrier to block water within the press side layer from moving to the wet paper web side, thereby preventing rewetting. Further, the felt acquires a balanced combination of smoothness, resistance to shedding, abrasion, and compression fatigue by providing the core member of the core-in-sheath fiber 41 with high viscosity, i.e. by using high-molecular-weight nylon.

IPC 8 full level

D21F 7/08 (2006.01); **D21F 7/10** (2006.01)

CPC (source: EP KR US)

D21F 7/08 (2013.01 - KR); **D21F 7/083** (2013.01 - EP US); **D21F 7/10** (2013.01 - EP KR US)

Cited by

CN110431000A; US11832681B2; US11325345B2; WO2018144120A1; WO2018144123A1; US12011063B2; US11944156B2; WO2018144121A1; WO2018144122A1; WO2018144119A1; WO2018144125A1; WO2023078613A1

Designated contracting state (EPC)

DE FI NL

DOCDB simple family (publication)

EP 2006444 A2 20081224; **EP 2006444 A4 20090325**; CA 2649264 A1 20071025; CN 101421458 A 20090429; JP 2007277784 A 20071025; JP 4976740 B2 20120718; KR 20080113213 A 20081229; TW 200738934 A 20071016; US 2009120603 A1 20090514; WO 2007119856 A1 20071025

DOCDB simple family (application)

EP 07741814 A 20070411; CA 2649264 A 20070411; CN 200780012920 A 20070411; JP 2006131921 A 20060411; JP 2007058378 W 20070411; KR 20087022749 A 20080918; TW 96112403 A 20070410; US 22615307 A 20070411