

Title (en)

Paper making shoe press belt

Title (de)

Schuhpressband zur Papierherstellung

Title (fr)

Courroie de presse à sabot pour la fabrication de papier

Publication

**EP 2623668 A1 20130807 (EN)**

Application

**EP 13000526 A 20130201**

Priority

JP 2012020044 A 20120201

Abstract (en)

A paper making shoe press belt includes a reinforcing fiber substrate and a polyurethane laminate. The reinforcing fiber substrate is embedded in at least one layer of the polyurethane laminate. At least one layer of the polyurethane laminate includes a polyurethane obtained by heat-curing a urethane prepolymer together with a mixed curing agent. The urethane prepolymer includes a terminal isocyanate group and is obtained by reacting a diisocyanate compound and a long-chain polyol. The diisocyanate compound includes at least one of toluene-diisocyanate, diphenylmethane-diisocyanate, and paraphenylene-diisocyanate. The mixed curing agent includes 70-99.5 mol% of dimethylthiotoluenediamine and 0.5-30 mol% of a curing agent. The curing agent includes at least one of diethyltoluenediamine and hydroquinone bis (2-hydroxyethyl) ether. An equivalent ratio of active hydrogen groups of the mixed curing agent to isocyanate groups of the urethane prepolymer is from 1.02 to 1.15.

IPC 8 full level

**D21F 3/02** (2006.01)

CPC (source: EP US)

**D21F 3/0227** (2013.01 - EP US)

Citation (applicant)

- JP H11247086 A 19990914 - ICHIKAWA WOOLEN TEXTILE
- EP 2284314 A1 20110216 - ICHIKAWA CO LTD [JP]

Citation (search report)

[X] EP 2284314 A1 20110216 - ICHIKAWA CO LTD [JP]

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2623668 A1 20130807; EP 2623668 B1 20141015**; CN 103243602 A 20130814; CN 103243602 B 20150819; JP 2013159859 A 20130819; JP 5242818 B1 20130724; US 2013192788 A1 20130801

DOCDB simple family (application)

**EP 13000526 A 20130201**; CN 201310040811 A 20130201; JP 2012020044 A 20120201; US 201213541946 A 20120705