

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 B1 20141015 (EN)

Application
EP 13000526 A 20130201

Priority
JP 2012020044 A 20120201

Abstract (en)
[origin: EP2623668A1] 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
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CPC (source: EP US)
D21F 3/0227 (2013.01 - EP US)

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