

Title (en)

Process for pre-binding fibrous materials

Title (de)

Verfahren zur Vorbindung von Fasermaterialien

Title (fr)

Procédé de pré-liage de matériaux fibreux

Publication

EP 1106724 B1 20030730 (DE)

Application

EP 00124328 A 20001116

Priority

DE 19959415 A 19991209

Abstract (en)

[origin: EP1106724A1] Pre-bonded fibrous material is prepared by use of a binding agent composition in powder form containing a mixed polymer powder prepared by emulsion polymerization and containing 0.01-25 wt.% of at least one ethylenically unsaturated carboxyl group containing monomer, whereby the mixed polymer has a glass transition temperature (Tg) or m.pt. of greater than 35 degrees C. Pre-bonded fibrous material (I) is prepared by use of a binding agent composition in powder form containing: (A) a mixed polymer powder prepared by emulsion polymerization and drying of monomers comprising vinyl ester, acrylic acid ester, methacrylic acid ester, vinyl aromatics and/or vinyl chloride and 0.01-25 wt.% of at least one ethylenically unsaturated carboxyl group containing monomer, whereby the mixed polymer has a glass transition temperature (Tg) or m.pt. of greater than 35 degrees C; and optionally (B) at least one compound, in powder form, having at least 2 reactive groups that can react with carboxyl groups and having a m.pt. of 35-150 degrees C that is mixed with the fibrous material and spread out or the powdered binding agent is dispersed over the spread fibers and bonded to the fibrous material by heating at 50-250 degrees C. An Independent claim is included for a molded article prepared using the fibrous material (I).

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

D04H 1/4218 (2013.01 - EP US); **D04H 1/4242** (2013.01 - EP US); **D04H 1/4334** (2013.01 - EP US); **D04H 1/587** (2013.01 - EP US); **D04H 1/60** (2013.01 - EP US); **D06M 15/227** (2013.01 - EP US); **D06M 15/233** (2013.01 - EP US); **D06M 15/263** (2013.01 - EP US); **D06M 15/273** (2013.01 - EP US); **D06M 15/333** (2013.01 - EP US); **D06M 15/55** (2013.01 - EP US); **D06M 23/08** (2013.01 - EP US)

Cited by

EP1413668A1; EP1775371A1; EP1413669A1; EP1348791A1; US7405169B2; WO2010097192A3; WO2008088545A1

DOCDB simple family (publication)

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