

Title (en)

Apparatus for pasting two or more plies for manufacturing tissue products

Title (de)

Vorrichtung zum Kleben von zwei oder mehr Schichten zur Herstellung von Gewebeprodukten

Title (fr)

Appareil pour le collage de deux ou plusieurs plis pour la fabrication de produits en tissu

Publication

EP 2048283 B2 20220223 (EN)

Application

EP 08015030 A 20080826

Priority

IT MI20071704 A 20070830

Abstract (en)

[origin: EP2048283A1] An apparatus for pasting two or more plies for manufacturing tissue products, has a first embossing roller which cooperates with a second embossing roller; the first embossing roller has a plurality of tips alternated with a plurality of continuous protrusions which have the same incision depth; the second roller has a plurality of tips alternated with a plurality of continuous protrusions which have the same incision depth, the arrangement of the tips and of the continuous protrusions of the first roller is reproduced identically and mirror-symmetrically on the second roller. According to another aspect of the invention, each of the two rollers has a plurality of tips separated by a plurality of recesses; the tips and the recesses are arranged on raised regions spaced by regions or compartments without tips; the raised regions provided with the tips form, in each roller, a pattern which is identical or different for each roller; the rollers cooperate so that at least two plies interposed between them, one of which is spread with paste, are bonded only in the regions of contact of two tips.

IPC 8 full level

D21H 27/40 (2006.01)

CPC (source: EP)

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Citation (opposition)

Opponent :

- JP 2004066573 A 20040304 - DAIO SEISHI KK
- US 4320162 A 19820316 - SCHULZ GALYN A

Cited by

ITMI20091952A1; US9205623B2; FR2946279A1; EP4032695A1; WO2012047992A1; WO2010135386A1; WO2010139759A1; WO2023217324A3; US11408129B2; US11732420B2; US12071729B2; US10132042B2; US10458069B2; US10472771B2; US10822745B2; US11725346B2; US8328984B2; US8377258B2; US8496783B2; US8758558B2; US9017515B2; US9326646B2; US9516978B2; US9516977B2; US10851499B2; US11427969B2; EP3677422B1

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