

Title (en)

Device and method for ply-bonding tissue products and multi-ply tissue web

Title (de)

Vorrichtung und Verfahren zur Prägungsbindung von Tissueprodukten und mehrlagigen Tissuebahnen

Title (fr)

Dispositif et méthode pour lier des produits de tissu par gaufrage et bande de tissu multicouche

Publication

**EP 1216818 A3 20031217 (EN)**

Application

**EP 01128359 A 20011130**

Priority

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Abstract (en)

[origin: DE10064281C1] To produce a bonded multi-layer tissue web, one feed delivers a tissue web (14) in one or more layers to an assembly of paired rollers (22,30;22,28). One roller is an embossing roller (22) and one of the two rollers in the pairs (22,28) carries barbs (26) on the mantle surface to act with a counter roller (30,28,22) with a hard rubber mantle surface. The positions of the rollers and the barbs are set so that the barbs penetrate into the tissue web (12) in the gap between paired rollers at the same time, formed by the first (14) and a second (16) tissue web feed.

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**B31F 1/07**; **B31F 5/02**

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CPC (source: EP)

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Citation (search report)

- [DX] EP 0796728 A2 19970924 - JAMES RIVER CORP [US]
- [A] US 4414255 A 19831108 - TOKUYAMA MITSURU [JP], et al
- [A] EP 0980751 A1 20000223 - PAPER CONVERTING MACHINE CO [US]

Cited by

EP1245844A3; US10279535B2; US11925539B2; WO2005085527A1; US8678806B2; US10633775B2

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