

Title (en)
Embossing-laminating unit and embossing method

Title (de)
Prägungslaminiereinheit und Prägeverfahren

Title (fr)
Unité de gaufrage-stratification et procédé de gaufrage

Publication
EP 2191959 A1 20100602 (EN)

Application
EP 09425478 A 20091123

Priority
IT FI20080229 A 20081125

Abstract (en)
The embossing - laminating unit (1), comprises: a first embossing roller (3) provided with a series of first embossing protuberances (3P); a first pressure roller (5), cooperating with said first embossing roller to emboss a first ply (V1) of web material; a second embossing roller (9) provided with a series of second embossing protuberances (9P); a second pressure roller (11), cooperating with said second embossing roller to emboss a second ply (V2) of web material; a glue applicator (7), cooperating with said first embossing roller (3); a laminating roller (15), cooperating with said second embossing roller (9); The laminating roller is provided with protuberances (15P) in phase with at least some of the first protuberances of the first embossing roller in order to generate a laminating effect in correspondence of areas of the first ply embossed by the first embossing roller.

IPC 8 full level
B31F 1/07 (2006.01)

CPC (source: EP)
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Citation (applicant)
US 4483728 A 19841120 - BAUERNFEIND ROBERT N [US]

Citation (search report)
• [X] WO 9944814 A1 19990910 - PERINI FABIO SPA [IT], et al
• [X] EP 1096069 A2 20010502 - FORT JAMES CORP [US]
• [A] WO 2007107167 A1 20070927 - SCA HYGIENE PROD GMBH [DE], et al

Cited by
US9730839B2; US9808827B2; US10729593B2; US8186296B2; US8574668B2; US8742197B2

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

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