

Title (en)  
Embossed paper web material

Title (de)  
Geprägtes Papierbahnmaterial

Title (fr)  
Matériau de feuille de papier gaufré

Publication  
**EP 1985438 B1 20161228 (EN)**

Application  
**EP 08425225 A 20080404**

Priority  
IT FI20070084 A 20070406

Abstract (en)  
[origin: EP1985438A2] The embossed paper web material comprises at least two plies (V1, V2), at least one of which is provided with a background embossing pattern constituted by linear protuberances (1P), extending according to closed lines projecting toward the inside of the web material. The portions of ply delimited by said closed lines form convexities (1C) facing the outside of the web material, which are distributed with a density equal to or greater than 6 convexities/cm<sup>2</sup> and preferably between 10 and 30 convexities/cm<sup>2</sup>.

IPC 8 full level  
**B31F 1/07** (2006.01)

CPC (source: EP)  
**B31F 1/07** (2013.01); **B31F 2201/0733** (2013.01); **B31F 2201/0738** (2013.01); **B31F 2201/0766** (2013.01)

Citation (examination)  
US 5736223 A 19980407 - LAURENT PIERRE [FR]

Citation (opposition)  
Opponent : SCA Hygiene Products AB  
• WO 9907546 A1 19990218 - SCA HYGIENE PROD GMBH [DE], et al  
• WO 2006136186 A1 20061228 - SCA HYGIENE PROD GMBH [DE], et al  
• WO 0228630 A2 20020411 - PROCTER & GAMBLE [US]  
• WO 2006133390 A2 20061214 - PROCTER & GAMBLE [US], et al  
• US 6106928 A 20000822 - LAURENT PIERRE [FR], et al  
• US 4320162 A 19820316 - SCHULZ GALYN A  
• WO 9744527 A1 19971127 - PROCTER & GAMBLE [US]  
• JP 2004244772 A 20040902 - DAIO SEISHI KK  
• US 5913765 A 19990622 - BURGESS WILLIAM H [US], et al  
• US 3738905 A 19730612 - THOMAS G

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CN114635310A

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1985438 A2 20081029**; **EP 1985438 A3 20140730**; **EP 1985438 B1 20161228**; **EP 1985438 B2 20200219**; ES 2616356 T3 20170612; ES 2616356 T5 20201008; HU E033601 T2 20171228; IT FI20070084 A1 20081007; PL 1985438 T3 20170831; PL 1985438 T5 20200713

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