

Title (en)

Paper embossing method, embossing rollers therefor, and embossed paper obtained

Title (de)

Verfahren zum Prägen von Papier, Prägewalzen dafür, und so hergestelltes geprägtes Papier

Title (fr)

Procédé de gaufrage de papier, rouleaux de gaufrage associés, et papier gaufré obtenu

Publication

EP 1029657 B1 20090506 (EN)

Application

EP 99125689 A 19991222

Priority

IT PI980082 A 19981223

Abstract (en)

[origin: EP1029657A1] A paper embossing method of a single or multiple web of paper, non woven fabric and similar material, such as for example, but not exclusively, for the production of rolls of all purpose paper, toilet paper, industrial rolls and the like, wherein by the passage of said paper between an embossing roller and a pressure roller said embossing roller embosses thereon a succession of a plurality of protrusions arranged like a wave alternated to a plurality of recesses arranged like a wave. An embossing roller (1 or 2) and an embossed paper with protrusions and recesses (1a and 1b or 2a,2b) have a succession of crests and grooves arranged like a wave. In particular, the wave has substantially sinusoidal shape. An embossed paper obtained by said roller. <IMAGE>

IPC 8 full level

B31F 1/07 (2006.01)

CPC (source: EP)

B31F 1/07 (2013.01); **B31F 2201/0723** (2013.01); **B31F 2201/0733** (2013.01); **B31F 2201/0738** (2013.01); **B31F 2201/0758** (2013.01); **B31F 2201/0764** (2013.01); **B31F 2201/0789** (2013.01)

Cited by

CN107415434A; EP1339471A4; CN102143838A; US8678806B2; WO2010015281A1; EP2048283B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1029657 A1 20000823; **EP 1029657 B1 20090506**; AT E430652 T1 20090515; DE 69940841 D1 20090618; ES 2323394 T3 20090714; IT 1306616 B1 20010618; IT PI980082 A0 19981223; IT PI980082 A1 20000623

DOCDB simple family (application)

EP 99125689 A 19991222; AT 99125689 T 19991222; DE 69940841 T 19991222; ES 99125689 T 19991222; IT PI980082 A 19981223