

Title (en)
Method of making a thick and smooth embossed tissue

Title (de)
Verfahren zum Herstellen einer dicken und glatten geprägten Bahn

Title (fr)
Procédé pour la fabrication d'une bande gaufrée épaisse et lisse

Publication
EP 1232854 B1 20050427 (EN)

Application
EP 01103798 A 20010216

Priority
EP 01103798 A 20010216

Abstract (en)
[origin: EP1232854A1] Method for making a tissue paper product from a tissue paper web, the method comprising the steps of: passing the tissue paper web through an embossing nip formed between a first and a second embossing roll, wherein at least one of the embossing rolls comprises at least 30 embossing elements per square centimetre, passing the tissue paper web through a calendering nip formed between a first and a second calendering roll, wherein the first and the second calendering roll are in contact with the tissue paper web over a contact length measured parallel to the direction of the axis of the first calendering roll exert a pressure onto the paper web of at least 50 N per centimetre of the contact length. Further claimed are paper tissue products made in accordance with the above method.

IPC 1-7
B31F 1/07

IPC 8 full level
A47K 7/00 (2006.01); **B31F 1/07** (2006.01); **D21G 1/00** (2006.01); **D21H 27/00** (2006.01)

CPC (source: EP KR)
B31F 1/07 (2013.01 - EP KR); **B31F 2201/0733** (2013.01 - EP); **B31F 2201/0758** (2013.01 - EP)

Citation (examination)

- DE 19824825 A1 19991209 - MAKSIMOW ALEXANDER [DE]
- DE 19860687 A1 20000706 - VOITH SULZER PAPIERMASCH GMBH [DE]
- DE 1804418 A1 19700716 - PROCTER & GAMBLE
- EP 0498623 A2 19920812 - JAMES RIVER CORP [US]

Cited by
US7771566B2; US7407560B2; USRE43095E; US2022333314A1; US7374638B2; US7435313B2; WO2006037365A1; WO2021061747A1; WO2005035857A3; US7413629B2; US7311800B2; US7314663B2; US7314664B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1232854 A1 20020821; EP 1232854 B1 20050427; EP 1232854 B2 20080709; AT E294061 T1 20050515; BR 0207364 A 20040225; CA 2436514 A1 20020829; CA 2436514 C 20081118; CN 1491159 A 20040421; DE 60110362 D1 20050602; DE 60110362 T2 20060119; DE 60110362 T3 20090115; JP 2004518562 A 20040624; KR 20030087626 A 20031114; MX PA03007329 A 20031204; WO 02066240 A1 20020829; WO 02066240 A8 20031106

DOCDB simple family (application)
EP 01103798 A 20010216; AT 01103798 T 20010216; BR 0207364 A 20020215; CA 2436514 A 20020215; CN 02804617 A 20020215; DE 60110362 T 20010216; JP 2002565780 A 20020215; KR 20037009635 A 20030721; MX PA03007329 A 20020215; US 0204615 W 20020215