

Title (en)

Creped and embossed absorbant paper sheet, embossing roll and embossing process

Title (de)

Gekrepptes, geprägtes saugfähiges Seidenpapier, Prägewalze und Verfahren zum Prägen

Title (fr)

Feuille de papier absorbant crêpé et gaufré, cylindre de gaufrage et procédé de gaufrage

Publication

EP 1101866 B2 20120222 (FR)

Application

EP 00403240 A 20001121

Priority

- EP 00403240 A 20001121
- EP 99402896 A 19991122

Abstract (en)

[origin: EP1101866A1] An embossed sheet has creped cellulose sheet(s) bearing an embossed motif formed by a series of frusta with relatively lower walls between them. Each sheet has a specific weight of 12 - 30 g/m<2>. Independent claims is/are included for the following: (a) A multi-layer absorbent sheet with outer layer(s) as above. (b) A gravure cylinder for embossing a sheet as above has burrs to form the frusta and protuberances to form the walls. (c) Embossing a sheet as in (b). Preferred Features: The walls are 10 - 50 % of the height of the frusta. The frusta for closed loops and the walls form closed figures.

IPC 8 full level

D21H 27/02 (2006.01); **B31F 1/07** (2006.01); **D21H 27/40** (2006.01)

CPC (source: EP US)

B31F 1/07 (2013.01 - EP US); **D21H 27/02** (2013.01 - EP US); **D21H 27/40** (2013.01 - EP US); **B31F 2201/0723** (2013.01 - EP US); **B31F 2201/0728** (2013.01 - EP US); **B31F 2201/0733** (2013.01 - EP US); **B31F 2201/0738** (2013.01 - EP US); **B31F 2201/0756** (2013.01 - EP US); **B31F 2201/0758** (2013.01 - EP US); **B31F 2201/0761** (2013.01 - EP US); **Y10T 428/216** (2015.01 - EP US); **Y10T 428/24463** (2015.01 - EP US); **Y10T 428/24479** (2015.01 - EP US); **Y10T 428/24612** (2015.01 - EP US); **Y10T 428/24628** (2015.01 - EP US); **Y10T 428/24942** (2015.01 - EP US)

Citation (opposition)

Opponent :

- WO 9631652 A1 19961010 - JAMES RIVER CORP [US]
- WO 9618771 A1 19960620 - KAYSERSBERG SA [FR], et al
- DE 19734414 A1 19990225 - SCA HYGIENE PROD GMBH [DE]
- EP 0836928 A1 19980422 - JAMES RIVER CORP [US]
- WO 9844194 A1 19981008 - FORT JAMES CORP [US]
- US 3868205 A 19750225 - THOMAS GORDON D

Cited by

EP1391174A1; EP1319748A1; US7413630B2; WO03050353A3

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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 1101866 A1 20010523; **EP 1101866 B1 20080507**; **EP 1101866 B2 20120222**; AT E394547 T1 20080515; CY 1108243 T1 20140212; DE 60038773 D1 20080619; DK 1101866 T3 20080908; DK 1101866 T4 20120529; EP 1101867 A1 20010523; ES 2304936 T3 20081101; ES 2304936 T5 20120605; PT 1101866 E 20080731; US 2003021954 A1 20030130; US 6461720 B1 20021008; US 6680102 B2 20040120

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