

Title (en)

Rolls of tissue having improved properties

Title (de)

Tissuepapierrollen mit verbesserten Eigenschaften

Title (fr)

Rouleaux de feuilles de papier à propriétés améliorées

Publication

EP 1541756 B1 20080305 (EN)

Application

EP 05004102 A 19990806

Priority

- EP 99939017 A 19990806
- US 12981498 A 19980806
- US 16686398 A 19981006

Abstract (en)

[origin: WO0008253A1] The roll properties of tissue sheets are improved either by imparting cross-machine direction dominant bar-like protrusions to the air side of the tissue by using specially woven transfer fabrics and/or by offsetting recurring surface features of the sheet relative to the surface features of adjacent sheets within the roll, such as by providing a throughdryer fabric with an offset seam. Both techniques provide the resulting tissue sheets with improved capabilities for providing an improved combination of roll bulk and roll firmness.

IPC 8 full level

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CPC (source: EP)

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WO 0008253 A1 20000217; AR 019469 A1 20020220; AU 5338499 A 20000228; AU 744482 B2 20020228; BR 9912644 A 20011009; CN 1206405 C 20050615; CN 1309736 A 20010822; CN 1670305 A 20050921; CN 1670306 A 20050921; CN 1670307 A 20050921; DE 69937356 D1 20071129; DE 69937356 T2 20080717; DE 69938316 D1 20080417; EP 1109969 A1 20010627; EP 1109969 B1 20071017; EP 1541756 A1 20050615; EP 1541756 B1 20080305; JP 2002522323 A 20020723; JP 4465111 B2 20100519; KR 100606305 B1 20060728; KR 20010072247 A 20010731; TW 580530 B 20040321

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