

Title (en)

Soft tissue paper containing noncationic surfactant.

Title (de)

Nichtkationisches, Tensid enthaltendes, sanftes Seidenpapier.

Title (fr)

Papier tissu doux contenant un surfactant non cationique.

Publication

EP 0347176 B1 19940406 (EN)

Application

EP 89305970 A 19890613

Priority

- US 20662188 A 19880614
- US 28011988 A 19881205

Abstract (en)

[origin: EP0347176A2] Tissue paper having an enhanced tactile sense of softness through incorporation of an effective amount of a noncationic surfactant is disclosed. Preferably, less than about 2.0% of the noncationic surfactant, on a dry fiber weight basis, is incorporated in the tissue paper; more preferably, only about 1.0% or less is so retained. Tissue paper embodiments of the present invention may further comprise a quantity of a binder material, such as starch, for linting control, and to increase paper strength.

IPC 1-7

D21H 21/24

IPC 8 full level

A47K 10/16 (2006.01); **D21H 17/03** (2006.01); **D21H 17/28** (2006.01); **D21H 17/59** (2006.01); **D21H 23/50** (2006.01); **D21H 27/00** (2006.01)

CPC (source: EP KR)

D21F 5/00 (2013.01 - KR); **D21H 17/28** (2013.01 - EP); **D21H 17/59** (2013.01 - EP); **D21H 23/50** (2013.01 - EP)

Cited by

DE19711452A1; CN113874582A; US6860967B2; US7147751B2; WO9816687A1; WO2012042115A1; EP0439363B1; EP0809734B1; WO9617128A1; US6905697B2; US6228895B1; US6268028B1; US6309509B1; US8545861B2; US6193841B1; US6306408B1; US6641822B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0347176 A2 19891220; EP 0347176 A3 19910502; EP 0347176 B1 19940406; EP 0347176 B2 19970702; AU 3636889 A 19891221; AU 634964 B2 19930311; BR 8902849 A 19900925; CA 1328035 C 19940329; DE 68914338 D1 19940511; DE 68914338 T2 19940818; DE 68914338 T3 19980205; ES 2050802 T3 19940601; ES 2050802 T5 19971001; GR 3024877 T3 19980130; JP 2837180 B2 19981214; JP H0299690 A 19900411; KR 100209384 B1 19990715; KR 910001170 A 19910130; MX 167010 B 19930222; NZ 229551 A 19920129

DOCDB simple family (application)

EP 89305970 A 19890613; AU 3636889 A 19890614; BR 8902849 A 19890614; CA 602760 A 19890614; DE 68914338 T 19890613; ES 89305970 T 19890613; GR 970402523 T 19970926; JP 15206689 A 19890614; KR 890008185 A 19890614; MX 1645889 A 19890614; NZ 22955189 A 19890614