

Title (en)

Process for preparing soft tissue paper treated with nonionic surfactant.

Title (de)

Verfahren zur Herstellung von nichtkationischem, Tensid enthaltendem, sanftem Seidenpapier.

Title (fr)

Procédé de préparation de papier tissu doux contenant un surfactant non cationique.

Publication

**EP 0347177 A2 19891220 (EN)**

Application

**EP 89305971 A 19890613**

Priority

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- US 28008688 A 19881205

Abstract (en)

Disclosed is a process for making soft tissue paper which includes the steps of wet-laying cellulose fibers to form a web, applying to the wet web, at a fiber consistency level of from about 10% to about 80%, a noncationic surfactant, and then drying and creping the web to form the finished tissue paper. The process may further include the steps of applying an effective quantity of a binder material, such as starch, to the wet web for linting control, and to contribute tensile strength to the tissue paper.

IPC 1-7

**D21D 3/00; D21H 3/02**

IPC 8 full level

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CPC (source: EP KR)

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Cited by

US6306408B1; DE19711452A1; DE19963834A1; DE19963834C2; DE19963835A1; DE19963835C2; AT525430A4; AT525430B1; EP3231939A1; US6860967B2; EP4234812A1; WO9405857A1; WO0149937A1; WO0149932A3; US6905697B2; US6228895B1; US6268028B1; US6309509B1; US8545861B2; US6193841B1; US6641822B2

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