

Title (en)

CHEMICALLY ENHANCED MULTI-DENSITY PAPER STRUCTURE AND METHOD FOR MAKING SAME

Title (de)

CHEMISCH VEREDELTE PAPIERSTRUKTUR MIT MANNIGFALTIGER DICHTE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

STRUCTURE DE PAPIER CHIMIQUEMENT AMELIOREE A DENSITE MULTIPLE ET METHODE DE FABRICATION DE LADITE STRUCTURE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9747809A1] A chemically enhanced paper structure (20) having a discrete pattern of a chemical composition is disclosed. The paper structure (20) comprises a cellulose substrate (22) such as tissue paper. The substrate has regions of relatively high (34) and relatively low (38) densities. The chemical composition (24) may include a chemical softener composition or a surface-active composition and is preferentially applied to the low density regions (38) of the substrate. Preferably, the low density regions (38) are discrete (36), so that an essentially continuous high density network (32) is present between the low density regions (36, 38). The paper structure is suitable for use as bath tissue or facial tissue. Preferably, the additive (24) is applied to the paper (22) from a solution (40) in an apparatus (50) comprising at least two axially rotatable rolls, i.e. an anvil roll (56) and optionally a transfer roll (54) and a metering gravure roll (52), forming a gap (60) through which the paper (22) passes, and optionally a nip (58).

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