

Title (en)

Process and apparatus for treating a fibrous web

Title (de)

Verfahren und Vorrichtung zum Behandeln einer Faserstoffbahn

Title (fr)

Procédé et dispositif pour le traitement d' une bande fibreuse

Publication

**EP 1318233 B1 20060816 (DE)**

Application

**EP 02024217 A 20021031**

Priority

DE 10157689 A 20011124

Abstract (en)

[origin: DE10157689C1] Assembly heats the web in a wide roller nip formed by a roller and a rotating mantle or two supported mantles. The roller/mantle are in contact with the web between them over a given peripheral section. Before the web enters the wide nip, it is treated with a fluid to moisten the fibers and the fiber structure. The fluid is applied to the web at a faster speed than the web on entering the nip. Assembly (1) heats the web in a wide roller nip (9) formed by a roller (3) and a rotating mantle (5) or two supported mantles. The roller/mantle are in contact with the web between them over a given peripheral section. Before the web enters the wide nip, it is treated with a fluid to moisten the fibers and the fiber structure. The fluid is applied to the web at a faster speed than the web on entering the nip. The molecular structure of the liquid is unchanged on passing through the nip, and it evaporates within the nip with a higher vapor pressure than steam from the water contained in the web. The liquid contains one or more components of liquid nitrogen, alcohol, ester, water with a reduced surface tension, and water at a higher temperature than the web in front of the nip.

IPC 8 full level

**D21G 1/00** (2006.01)

CPC (source: EP)

**D21G 1/006** (2013.01); **D21G 1/0093** (2013.01)

Designated contracting state (EPC)

DE FI SE

DOCDB simple family (publication)

**DE 10157689 C1 20030213**; DE 50207845 D1 20060928; EP 1318233 A2 20030611; EP 1318233 A3 20030910; EP 1318233 B1 20060816

DOCDB simple family (application)

**DE 10157689 A 20011124**; DE 50207845 T 20021031; EP 02024217 A 20021031