

Title (en)

Roll for manufacturing and/or treating a fibrous web, method for manufacturing the roll and use of the roll

Title (de)

Walze zur Herstellung und/oder Behandlung einer Faserstoffbahn, Verfahren zur Herstellung der Walze und Anwendung der Walze

Title (fr)

Rouleau pour la fabrication et/ou le traitement d'une bande fibreuse, procédé de fabrication du rouleau et utilisation du rouleau

Publication

EP 1647629 A1 20060419 (DE)

Application

EP 05109357 A 20051007

Priority

DE 102004050263 A 20041014

Abstract (en)

The roller (1) in a machine for the production and/or finishing of a paper or cardboard web, and especially the web-forming or fourdrinier suction roller for the pulp, has a roller mantle (2) with a number of water extraction openings (3). The openings are arranged in groups (G1-G3). Carrier bodies (5) are between the openings, for support against the fourdrinier, with a contact surface (6) and carrier flanks (7) aligned to the roller axis. An edge (K) is formed between the carrier surfaces and their flanks. The contact surfaces are coated to give them an increased hardness compared to the remainder of the roller material, to give an increased wear resistance. The coating is a ceramic, hard metal or hard metal alloy material.

IPC 8 full level

D21F 3/10 (2006.01)

CPC (source: EP)

D21F 3/105 (2013.01)

Citation (applicant)

- WO 9932713 A1 19990701 - VALMET CORP [FI], et al
- DE 10026542 A1 20001214 - VALMET CORP [FI]
- DE 10227842 A1 20040108 - VOITH PAPER PATENT GMBH [DE]
- DE 10227846 A1 20040108 - VOITH PAPER PATENT GMBH [DE]
- DE 10227825 A1 20040108 - VOITH PAPER PATENT GMBH [DE]
- DE 10227847 A1 20040108 - VOITH PAPER PATENT GMBH [DE]
- DE 10227848 A1 20040108 - VOITH PAPER PATENT GMBH [DE]
- DE 10227843 A1 20040108 - VOITH PAPER GMBH & CO KG [DE]
- DE 10327244 A1 20050105 - VOITH PAPER PATENT GMBH [DE]
- DE 10327246 A1 20050105 - VOITH PAPER PATENT GMBH [DE]
- EP 1375743 A1 20040102 - VOITH PAPER PATENT GMBH [DE]
- DE 10106731 A1 20020822 - VOITH PAPER PATENT GMBH [DE]

Citation (search report)

- [XDY] EP 1375743 A1 20040102 - VOITH PAPER PATENT GMBH [DE]
- [XD] DE 10227825 A1 20040108 - VOITH PAPER PATENT GMBH [DE]
- [Y] US 5023985 A 19910618 - SALO JUKKA [FI], et al
- [Y] GB 982971 A 19650210 - METALLURG GES FUER METALLURG P
- [YD] DE 10106731 A1 20020822 - VOITH PAPER PATENT GMBH [DE]

Cited by

EP1860233A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1647629 A1 20060419; DE 102004050263 A1 20060427

DOCDB simple family (application)

EP 05109357 A 20051007; DE 102004050263 A 20041014