Title (en)

Method for manufacturing machine components and roll shell manufactured accordingly

Title (de)

Verfahren zur Herstellung von Maschinenteilen und danach hergestellter Walzenmantel

Title (fr)

Procédé de fabrication d'éléments de machines et bandage de cylindre ainsi fabriqué

Publication

EP 2108736 A3 20121226 (DE)

Application

EP 09155207 A 20090316

Priority

- DE 102008001052 A 20080408
- DE 102008040910 A 20080731

Abstract (en)

[origin: EP2108736A2] The method involves providing a suction roll sleeve (2) with a pass-through opening. A set of material characteristics of the roll sleeve is altered with regard to an increase in resistance against vibratory fissure corrosion in a localized area of the roll sleeve corresponding to the opening, where the resistance occurs by introducing a set of internal stresses or through a structural change in the roll sleeve. The stresses are produced mechanically through plastic deformation. A tool e.g. ball, with a diameter which is larger than a diameter of the opening is inserted via the opening. An independent claim is also included for a roll sleeve for a paper machine, comprising a pass-through opening.

IPC 8 full level

D21F 3/10 (2006.01); **C21D 1/38** (2006.01); **C21D 7/12** (2006.01); **C21D 9/08** (2006.01)

CPC (source: EP US)

C21D 1/38 (2013.01 - EP US); **C21D 7/12** (2013.01 - EP US); **C21D 9/08** (2013.01 - EP US); **D21F 3/10** (2013.01 - EP US); C21D 1/09 (2013.01 - EP US); Y10T 29/49544 (2015.01 - EP US); Y10T 428/13 (2015.01 - EP US)

Citation (search report)

- [X] DE 102005017794 A1 20061019 - VOITH PATENT GMBH [DE]
- [A] US 3111455 A 19631119 - ZUCK FRED H
- [A] EP 1061151 A1 20001220 - KUBOTA KK [JP]
- [A] WO 2007003698 A1 20070111 - METSO PAPER INC [FI], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2108736 A2 20091014; **EP 2108736 A3 20121226**; JP 2009249807 A 20091029; US 2009252904 A1 20091008

DOCDB simple family (application)

EP 09155207 A 20090316; JP 2009092598 A 20090407; US 41957809 A 20090407