

Title (en)

PROCESS AND APPARATUS FOR MAKING A NON-ELASTIC, IMPERVIOUS AND FLEXIBLE PRESSURE BELT, PARTICULARLY FOR THE WET PRESS OF A PAPER-MAKING MACHINE

Publication

**EP 0273093 B1 19901107 (DE)**

Application

**EP 87104607 A 19870327**

Priority

DE 3641191 A 19861203

Abstract (en)

[origin: US4889674A] The invention relates to a method of the manufacture of dimensionally stable, liquid-impermeable, flexible press bands, particularly for wet presses of paper making machines. With known manufacturing methods for such press bands, the provision of a structured surface for liquid discharge on the outer surface of the press band, which faces the fibrous web or the felts, is achieved either by reversing the press band after removal from the casting mould so that the structured surface becomes the outer surface of the band while the smooth surface forms the inside thereof, or by grinding drainage ducts into the outer surface of the press band. But especially in the case of small band diameters, reversing of such cast press bands causes serious problems and entails considerable expenditure, wherein the risk of damage to the band cannot be excluded and grinding of the drainage ducts is just as expensive. To simplify the manufacturing process and to eliminate reversing of the press band after removal thereof from the casting mould, the inner wall of the centrifugal tube is provided with cavities and/or depressions which upon casting of the free-flowing mixture are filled therewith to form raised surface portions on the outer surface of the finished press band, so that in a subsequent pressing operation liquid to be discharged may be drained between said raised portions, and the completely cast press band is ground to finished size on the inside thereof.

IPC 1-7

**D21F 3/02**

IPC 8 full level

**B29C 39/10** (2006.01); **B29C 39/18** (2006.01); **D21F 3/02** (2006.01); **B29L 29/00** (2006.01)

CPC (source: EP US)

**D21F 3/0227** (2013.01 - EP US); **D21F 3/0236** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0273093 A1 19880706**; **EP 0273093 B1 19901107**; AT E58190 T1 19901115; CA 1315063 C 19930330; DE 3641191 A1 19880609; DE 3766084 D1 19901213; ES 2019318 B3 19910616; FI 874328 A0 19871002; FI 874328 A 19880604; FI 91948 B 19940531; FI 91948 C 19940912; JP H0413127 B2 19920306; JP S63295216 A 19881201; US 4889674 A 19891226

DOCDB simple family (application)

**EP 87104607 A 19870327**; AT 87104607 T 19870327; CA 533970 A 19870406; DE 3641191 A 19861203; DE 3766084 T 19870327; ES 87104607 T 19870327; FI 874328 A 19871002; JP 19513087 A 19870804; US 4202787 A 19870424