Title (en)

CYLINDER FOR MACHINES PROCESSING WEB-LIKE MATERIAL

Publication

EP 0169475 A3 19870930 (DE)

Application

EP 85108865 A 19850716

Priority

DE 3427624 A 19840726

Abstract (en)

[origin: EP0169475A2] The cylinder has a shell (2) provided with a rubber coating (1) and a spindle (7) which penetrates said shell with clearance. The shell (2) is mounted rotatably in lateral bearing plates (5) independently of the spindle (7) and the ends of the spindle (7) project from the shell (2) and can be charged by respectively assigned actuators (11) to bring about a bending compensation. A long service life of the rubber coating (1) can be achieved even at high rotational speeds of the shell (2) in that the annular space (12) between the shell (2) and the spindle (7) is incorporated in a cooling circuit which passes over a cooling unit (13). For this purpose, the ends of the spindle (7) are enclosed in each case by a closure cap (14) which is penetrated by the actuator (11), is attached to the adjacent bearing plate (5) and is sealed off against the rotating shell (2) and which is provided with connections (15) for the forward branch (16) or return branch (17) of the coolant circuit. In order to guarantee a sufficient throughput of coolant through the annular space (12), a bypass line (20) is provided in each case in the region of the support bearings (8) arranged between the shell (2) and the spindle (7). <IMAGE>

IPC 1-7

B41F 13/22

IPC 8 full level

F15B 15/14 (2006.01); **B41F 13/18** (2006.01); **B41F 13/20** (2006.01); **B41F 13/22** (2006.01); **F15B 15/20** (2006.01)

CPC (source: EP)

B41F 13/22 (2013.01)

Citation (search report)

- [YD] DE 3114731 A1 19821028 - FRANKENTHAL AG ALBERT [DE]
- [Y] US 3698514 A 19721017 - BUCK WILLARD E, et al
- [Y] US 2344240 A 19440314 - DAVID FIRTH
- [Y] DE 2250877 A1 19730712 - TOOLS LTD NV

Cited by

CN112368436A; US9056451B2; WO2009146819A1; WO9532096A1

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DOCDB simple family (application)

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