

Title (en)

INKING CELL DOCTOR BLADE FOR AN INK TRANSFER BODY

Title (de)

FARBKAMMERRAKEL FÜR EINEN FARBÜBERTRAGENDEN KÖRPER

Title (fr)

RACLE DU RESERVOIR D'ENCRE D'UN ELEMENT DESTINE AU TRANSFERT D'ENCRE

Publication

EP 0568674 B1 19960807 (DE)

Application

EP 92923767 A 19921121

Priority

- DE 9205695 U 19920428
- DE 4138807 A 19911126
- EP 9202684 W 19921121

Abstract (en)

[origin: US5497702A] PCT No. PCT/EP92/02684 Sec. 371 Date Aug. 16, 1993 Sec. 102(e) Date Aug. 16, 1993 PCT Filed Nov. 21, 1992 PCT Pub. No. WO93/10975 PCT Pub. Date Jun. 10, 1993. An arrangement for coating continuous material webs is designed in particular as an inking cell doctor blade for an ink transfer, circular cylindrical screen, such as a screened roller or an engraved cylinder of a printing machine. In the cavity of the inking cell is arranged a profiled body with a pressure nose spaced apart from the outer surface of the screen which forms a flow gap that extends in the axial direction in relation to the screen. The pressure nose further has a relief located behind the screen in its direction of rotation, for a sudden cross-sectional enlargement that causes a sudden pressure drop in the part of the cell cavity located behind the pressure nose. When the circular cylindrical screen is rotated, a high pressure builds up in the wedge-shaped, narrowing flow gap between the pressure nose and the outer surface of the screen. This high pressure presses the liquid printing ink into the cups or recesses located at the circumference of the screen and constantly swirls it therein, so that ink residues and impurities are constantly washed out of the cups and/or recesses and mixed with the supplied printing ink.

IPC 1-7

B41F 31/02

IPC 8 full level

B41F 31/02 (2006.01); **B05C 1/08** (2006.01)

CPC (source: EP US)

B05C 1/086 (2013.01 - EP US); **B41F 31/027** (2013.01 - EP US)

Cited by

DE102006024789A1; EP1110728A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL SE

DOCDB simple family (publication)

US 5497702 A 19960312; AT E141082 T1 19960815; AU 2944492 A 19930628; DE 59206870 D1 19960912; DE 9215854 U1 19930325; DK 0568674 T3 19961223; EP 0568674 A1 19931110; EP 0568674 B1 19960807; WO 9310976 A1 19930610

DOCDB simple family (application)

US 9400393 A 19930816; AT 92923767 T 19921121; AU 2944492 A 19921121; DE 59206870 T 19921121; DE 9215854 U 19921121; DK 92923767 T 19921121; EP 9202684 W 19921121; EP 92923767 A 19921121