

Title (en)

Method for transferring a liquid from a solid to another solid and device for performing such a method

Title (de)

Verfahren zur Übertragung flüssiger Medien von einem Festkörper auf einen anderen sowie Vorrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé pour transférer un liquide d'un solide à un autre solide et dispositif pour réaliser ce procédé

Publication

**EP 0594016 B1 19960117 (DE)**

Application

**EP 93116390 A 19931009**

Priority

DE 4235586 A 19921022

Abstract (en)

[origin: EP0594016A1] A method for transferring liquid media from a first solid to a second solid which has a surface structure, the liquid medium firstly being conveyed by the first solid, which has a resilient, but dimensionally stable surface, into depressions in the surface of the first solid, said depressions forming an irregular, random (stochastic) pattern, and the resilient, but dimensionally stable surface of the first solid being deformed due to pressure resulting from contact with the second solid in such a way that the liquid medium is transferred, due to the pressure effect thus involved, from the stochastically distributed depressions in the first solid into the depressions in the surface of the second solid. The device for carrying out the method according to the invention is constructed either completely or at least on the surface from a resilient, but dimensionally stable material and has a surface structure which forms an irregular, random (stochastic) pattern with a peak-to-valley height of  $R_z > 20 \mu m$ . <IMAGE>

IPC 1-7

**B41F 9/06**; **B41F 31/26**; **B41M 1/10**; **B41N 7/06**; **B42C 9/00**

IPC 8 full level

**B41F 9/06** (2006.01); **B41F 31/26** (2006.01); **B41M 1/10** (2006.01); **B41N 7/06** (2006.01); **B42C 9/00** (2006.01)

CPC (source: EP)

**B41F 9/063** (2013.01); **B41F 31/26** (2013.01); **B41N 7/06** (2013.01); **B42C 9/0006** (2013.01); **B41N 2207/02** (2013.01)

Cited by

US2009241789A1; US9266375B2; WO2004090059A1; WO2007077053A1; WO2008009699A1; US8561536B2

Designated contracting state (EPC)

AT BE CH ES FR GB IT LI LU NL

DOCDB simple family (publication)

**EP 0594016 A1 19940427**; **EP 0594016 B1 19960117**; AT E133109 T1 19960215; DE 4235586 A1 19940428; DE 4235586 C2 19980820; ES 2083813 T3 19960416

DOCDB simple family (application)

**EP 93116390 A 19931009**; AT 93116390 T 19931009; DE 4235586 A 19921022; ES 93116390 T 19931009