

Title (en)  
Transfer surface for a more or less viscous liquid and lithographic printing process using such a surface

Title (de)  
Übertragungsfläche für eine mehr oder weniger viskose Flüssigkeit und diese Fläche verwendendes Flachdruckverfahren

Title (fr)  
Surface de transfert d'un produit liquide plus ou moins visqueux sur un support, procédé de fabrication d'impression offset réalisé avec cette surface

Publication  
**EP 0806304 B1 20001018 (FR)**

Application  
**EP 97401044 A 19970509**

Priority  
FR 9605865 A 19960510

Abstract (en)  
[origin: EP0806304A1] The transfer surface for a liquid product of greater or lesser viscosity, e.g. ink, onto a support such as paper consists of a substrate (1) with separate zones (2-4) of an anti-adhesive material (2), a hydrophilic material (3) and a hydrophobic material (4), or a combination of such zones designed to give the surface a heterogenous structure to improve the quality of liquid transfer to the support. The anti-adhesive material is of silicone, the hydrophilic material is a polymer with lateral acid groupings, and the hydrophobic material is a non-polar or fluoridated polymer, applied in various ratios, e.g. 5 to 10 per cent, 30 - 45 per cent and 50 - 60 per cent respectively. They can be applied, after coating the substrate with monomers or oligomers, by irradiation through a mask with opaque and transparent sections, using ultraviolet radiation and at least one initiator. The substrate can be made, for example, from a carboxylated nitrile elastomer, a polyolefin or formulated polyurethane.

IPC 1-7  
**B41N 10/02**

IPC 8 full level  
**B41F 7/02** (2006.01); **B41N 10/02** (2006.01)

CPC (source: EP KR US)  
**B41N 10/02** (2013.01 - EP US); **B41N 10/04** (2013.01 - KR); **B41N 10/06** (2013.01 - KR); **B41N 2210/02** (2013.01 - EP KR US); **B41N 2210/14** (2013.01 - KR); **Y10T 428/24802** (2015.01 - EP US)

Cited by  
EP1026004A1; FR2789347A1; US6651559B2

Designated contracting state (EPC)  
AT BE CH DE ES FI FR GB IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**EP 0806304 A1 19971112; EP 0806304 B1 20001018; EP 0806304 B8 20010502**; AT E197016 T1 20001115; AU 2082697 A 19971113; AU 721280 B2 20000629; CA 2204821 A1 19971110; CA 2204821 C 20050712; DE 69703313 D1 20001123; DE 69703313 T2 20010523; FR 2748422 A1 19971114; FR 2748422 B1 19980612; JP 4209955 B2 20090114; JP H1052981 A 19980224; KR 970074009 A 19971210; SI 0806304 T1 20010430; US 6027789 A 20000222; US 6368436 B1 20020409

DOCDB simple family (application)  
**EP 97401044 A 19970509**; AT 97401044 T 19970509; AU 2082697 A 19970512; CA 2204821 A 19970508; DE 69703313 T 19970509; FR 9605865 A 19960510; JP 12109297 A 19970512; KR 19970017801 A 19970509; SI 9730105 T 19970509; US 46576299 A 19991217; US 85323797 A 19970509