

Title (en)

Process and apparatus for intaglio printing using an erasable form

Title (de)

Verfahren und Vorrichtung für den Tiefdruck mittels einer löschbaren Tiefdruckform

Title (fr)

Procédé et appareil pour l'impression en creux utilisant une forme effaçable

Publication

**EP 0813957 B1 20011128 (DE)**

Application

**EP 97109373 A 19970610**

Priority

DE 19624441 A 19960619

Abstract (en)

[origin: CA2207939A1] Starting from a blank gravure form, a filling step and a subsequent imaging step are carried out to produce a printing form. In the filling step, depressions are evenly filled with a UV printing ink by an application device, and the UV printing ink is then solidified by a UV drier. In the imaging step, solidified UV printing ink is removed from the depressions in accordance with the image by thermal ablation. The gravure form screened in accordance with the image is then inked with UV printing ink by an inking system. For reuse, the gravure form undergoes an erasure step that uses UV printing ink.

[origin: CA2207939A1] Starting from a blank gravure form, a filling step and a subsequent imaging step are carried out to produce a printing form. In the filling step, depressions are evenly filled with a UV printing ink by an application device, and the UV printing ink is then solidified by a UV drier. In the imaging step, solidified UV printing ink is removed from the depressions in accordance with the image by thermal ablation. The gravure form screened in accordance with the image is then inked with UV printing ink by an inking system. For reuse, the gravure form undergoes an erasure step that uses UV printing ink.

IPC 1-7

**B41C 1/18**; **B41C 1/055**; **B41C 1/10**; **B41C 1/05**; **B41F 9/01**; **B41M 1/10**

IPC 8 full level

**B41C 1/05** (2006.01); **B41C 1/055** (2006.01); **B41C 1/10** (2006.01); **B41C 1/18** (2006.01); **B41F 9/01** (2006.01); **B41M 1/10** (2006.01); **B41N 1/12** (2006.01)

CPC (source: EP US)

**B41C 1/05** (2013.01 - EP US); **B41C 1/055** (2013.01 - EP US); **B41F 9/01** (2013.01 - EP US); **B41M 1/10** (2013.01 - EP US); **B41N 3/003** (2013.01 - EP US); **B41P 2227/70** (2013.01 - EP US)

Citation (examination)

EP 0570879 A2 19931124 - ROLAND MAN DRUCKMASCH [DE]

Cited by

CN105415913A; US6311619B1; WO2007051572A1; WO2007051565A1; WO02078966A2; WO2012134749A1; EP0813962B1; WO9942291A1; WO2012125303A1

Designated contracting state (EPC)

CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**DE 19624441 C1 19971204**; CA 2207939 A1 19971219; CA 2207939 C 20020129; DE 59705500 D1 20020110; EP 0813957 A2 19971229; EP 0813957 A3 19980916; EP 0813957 B1 20011128; EP 0813957 B2 20041103; JP 3238646 B2 20011217; JP H1058814 A 19980303; US 6070528 A 20000606

DOCDB simple family (application)

**DE 19624441 A 19960619**; CA 2207939 A 19970616; DE 59705500 T 19970610; EP 97109373 A 19970610; JP 15724297 A 19970613; US 87892697 A 19970619