Title (en)

METHOD FOR THE PRODUCTION OF FLEXOGRAPHIC PRINTING FORMS BY MEANS OF ELECTRON BEAM CROSS-LINKING AND LASER ENGRAVING

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FLEXODRUCKFORMEN MITTELS ELEKTRONENSTRAHLVERNETZUNG UND LASERGRAVUR

Title (fr)

PROCEDE DE PRODUCTION DE BLOCS D'IMPRESSION FLEXOGRAPHIQUE PAR RETICULATION PAR FAISCEAU ELECTRONIQUE ET PAR GRAVURE LASER

Publication

EP 1414647 B1 20050413 (DE)

Application

EP 02791422 A 20020718

Priority

- DE 10136477 A 20010727
- EP 0208013 W 20020718

Abstract (en)

[origin: US6921625B2] A method for the production of flexographic printing forms by means of laser engraving, wherein at least one elastomer relief layer is applied to a dimensionally-stable carrier. The relief layer comprises at least one elastomer binding agent and at least one absorber for laser radiation; the relief layer is entirely cross-linked by means of electron radiation at a minimum overall dose of 40 kGy; a printed relief is engraved into the cross-linked relief layer by means of a laser. The invention also relates to flexographic printing forms which can be obtained according to said method.

IPC 1-7

B41C 1/05; B41N 1/12; G03F 7/16

IPC 8 full level

B41C 1/05 (2006.01); **B41N 1/12** (2006.01); **G03F 7/16** (2006.01)

CPC (source: EP US)

B41C 1/05 (2013.01 - EP US); **B41N 1/12** (2013.01 - EP US); Y10S 430/145 (2013.01 - EP US); Y10S 430/146 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

US 2004197711 A1 20041007; **US 6921625 B2 20050726**; AT E293041 T1 20050415; DE 10136477 A1 20030206; DE 50202790 D1 20050519; EP 1414647 A1 20040506; EP 1414647 B1 20050413; JP 2004535962 A 20041202; WO 03011596 A1 20030213

DOCDB simple family (application)

US 48423704 A 20040120; AT 02791422 T 20020718; DE 10136477 A 20010727; DE 50202790 T 20020718; EP 0208013 W 20020718; EP 02791422 A 20020718; JP 2003516805 A 20020718