

Title (en)

Compositions and solventless process for digital laser imagable lithographic printing plate production

Title (de)

Zusammensetzungen und lösungsmittelfreies Verfahren für die Herstellung von Flachdruckplatten mittels digitaler Speicherung

Title (fr)

Compositions et procédé sans emploi de solvants pour la fabrication de plaques lithographiques avec enregistrement digitalisé

Publication

EP 0764522 A2 19970326 (EN)

Application

EP 96115137 A 19960920

Priority

US 53291295 A 19950922

Abstract (en)

The invention comprises a waterless, multilayered lithographic printing plate imagable by digitally controlled laser ablation. The plate exhibits superior impression life and is produced by solventless methods to yield low VOC. The plate contains a first solid substrate layer; a second infrared light absorbing polymeric layer containing crosslinked functionality; and a polysiloxane top layer containing crosslinked functionality. At least the second layer and top layer contain interlayer crosslinked bonds. Optionally, the plate may contain a prime polymeric layer interposed between the first and second layer.

IPC 1-7

B41C 1/10; B41N 1/12

IPC 8 full level

B41N 1/00 (2006.01)

CPC (source: EP)

B41N 1/003 (2013.01); **B41C 2210/16** (2016.11)

Cited by

US6576399B1; CN111393699A; US6058841A; EP1031413A3; US6132933A; US6022668A; US6303271B1; US6558869B1; US6420087B1; WO9749557A1; WO0108885A1; WO9921725A1; WO9916621A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI NL PT SE

DOCDB simple family (publication)

EP 0764522 A2 19970326; EP 0764522 A3 19970806; EP 0764522 B1 20000308; AT E190267 T1 20000315; CA 2186177 A1 19970323; DE 69606941 D1 20000413; DE 69606941 T2 20000629; ZA 967894 B 19970407

DOCDB simple family (application)

EP 96115137 A 19960920; AT 96115137 T 19960920; CA 2186177 A 19960923; DE 69606941 T 19960920; ZA 967894 A 19960918