

Title (en)

Method of making a negative-working heat-sensitive lithographic printing plate precursor

Title (de)

Verfahren zur Herstellung einer negativarbeitenden, wärmeempfindlichen, lithographischen Druckplattenvorstufe

Title (fr)

Procédé pour la fabrication d'un précurseur de type négatif d'une plaque d'impression lithographique thermosensible

Publication

**EP 1243413 B1 20040526 (EN)**

Application

**EP 02100128 A 20020212**

Priority

- EP 02100128 A 20020212
- EP 01000059 A 20010320

Abstract (en)

[origin: EP1243413A1] A method of making a negative-working heat-sensitive lithographic printing plate precursor is disclosed, the method comprising the steps of (a)preparing an aqueous dispersion comprising particles of a hydrophobic thermoplastic polymer A which is not soluble or swellable in an aqueous alkaline developer and particles of a polymer B which is soluble or swellable in an aqueous alkaline developer but not soluble or swellable in water, wherein the glass transition temperature of polymer A is higher than the softening temperature of polymer B; (b)applying the aqueous dispersion on a lithographic substrate having a hydrophilic surface, thereby obtaining an image-recording layer; (c)overall heating the image-recording layer at a temperature which is higher than the softening temperature of polymer B without inducing coalescence of the particles of polymer A. The printing plate precursor has improved mechanical resistance.

IPC 1-7

**B41C 1/10**

IPC 8 full level

**B41C 1/10** (2006.01); **B41M 5/36** (2006.01)

CPC (source: EP)

**B41C 1/1025** (2013.01); **B41C 2210/04** (2013.01); **B41C 2210/06** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41C 2210/262** (2013.01); **B41M 5/366** (2013.01)

Cited by

CN107848290A; EP1767349A1; US7767384B2; US7348126B2; US7425405B2; WO2007039474A1; US7195861B2; US7354696B2; EP1552923A3; EP3284599A1; EP3674796A4

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1243413 A1 20020925; EP 1243413 B1 20040526**

DOCDB simple family (application)

**EP 02100128 A 20020212**