Title (en)

Method of making a heat-sensitive lithographic printing plate precursor

Title (de)

Verfahren zur Herstellung eines wärmeempfindlichen Vorläufers für eine Flachdruckplatte

Title (fr)

Méthode pour la fabrication d'un précurseur thermosensible pour une plaque lithographique

Publication

EP 1243410 A1 20020925 (EN)

Application

EP 01000059 A 20010320

Priority

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Abstract (en)

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) heating the image-recording layer at a temperature which is higher than the softening temperature of polymer B, and preferably lower than the glass transition temperature of polymer A. The printing plate precursor has improved mechanical resistance.

IPC 1-7 (main, further and additional classification)

B41C 1/10

IPC 8 full level (invention and additional information)

G03F 7/004 (2006.01); **B41C 1/055** (2006.01); **B41C 1/10** (2006.01); **B41N 1/14** (2006.01); **G03F 7/00** (2006.01); **G03F 7/38** (2006.01); B41M 5/36 (2006.01)

CPC (invention and additional information)

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)

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