

Title (en)

Heat sensitive imaging element and method for making a printing plate therewith

Title (de)

Wärmeempfindliches Aufzeichnungselement und Verfahren zur Herstellung einer lithographischen Druckform damit

Title (fr)

Élément d'enregistrement thermosensible et méthode pour la fabrication d'un cliché lithographique utilisant cet élément

Publication

EP 0773113 A1 19970514 (EN)

Application

EP 96202992 A 19961028

Priority

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- EP 95203047 A 19951109

Abstract (en)

This invention provides a method for making a lithographic printing plate comprising the steps of: (1) image-wise exposing an imaging element comprising (i) on a hydrophilic surface of a lithographic base an image forming layer comprising hydrophobic thermoplastic polymer particles dispersed in a hydrophilic binder and (ii) a compound capable of converting light to heat, said compound being comprised in said image forming layer or a layer adjacent thereto; (2) developing a thus obtained image-wise exposed imaging element with plain water or an aqueous liquid; (3) and overall heating a thus obtained imaged imaging element.

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B41M 5/36; **B41C 1/10**

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- EP 0601240 A1 19940615 - AGFA GEVAERT NV [BE]
- EP 0514145 A1 19921119 - DU PONT UK [GB]
- GB 1419512 A 19751231 - KODAK LTD
- FR 2300354 A1 19760903 - KODAK PATHE [FR]
- US 3971660 A 19760727 - STAEHLE HENRY C
- US 4284705 A 19810818 - PHILIPOT GEORGES A, et al
- EP 0514490 A1 19921125 - UNIV TEXAS [US], et al
- EP 0620502 A1 19941019 - AGFA GEVAERT NV [BE]
- EP 0619525 A1 19941012 - AGFA GEVAERT NV [BE]
- US 3476937 A 19691104 - VRANCKEN MARCEL NICOLAS
- EP 0571010 A1 19931124 - AGFA GEVAERT NV [BE]
- EP 0620677 A1 19941019 - AGFA GEVAERT NV [BE]
- EP 0620674 A1 19941019 - AGFA GEVAERT NV [BE]

Citation (search report)

- [XY] FR 1561957 A 19690404
- [Y] US 3580719 A 19710525 - BRINCKMAN ERIC MARIA
- [DY] EP 0514145 A1 19921119 - DU PONT UK [GB]
- [XY] EP 0599510 A2 19940601 - DU PONT [GB]
- [AD] US 3476937 A 19691104 - VRANCKEN MARCEL NICOLAS
- [Y] DE 1150999 B 19630704 - AGFA AG
- [YD] J. VERMEERSCH: "A LITHOGRAPHIC PRINTING PLATE", RESEARCH DISCLOSURE, no. 333, 1 January 1992 (1992-01-01), pages 2, XP000281114
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 196 (M - 161) 5 October 1982 (1982-10-05)

Cited by

EP1157829A1; GB2334233A; EP1356929A3; EP1243413A1; US6699640B2; EP1243410A1; US6124425A; US8652758B2; US6627380B2; US7198876B2; US6551757B1; US6177182B1; US7662537B2; US6641976B2

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