

Title (en)

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

Title (de)

Wärmeempfindliches Aufzeichnungselement und Verfahren zur Herstellung einer Druckform damit

Title (fr)

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

Publication

EP 0773112 B1 20010530 (EN)

Application

EP 96202950 A 19961022

Priority

- EP 96202950 A 19961022
- EP 95203046 A 19951109

Abstract (en)

[origin: EP0773112A1] The present invention discloses an imaging element comprising 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, characterised in that said image forming layer further comprises a cross-linking agent capable of cross-linking said hydrophilic binder upon heating in a ratio between 1 :100 and 200:1 by weight versus the hydrophilic binder. The present invention further provides a method for making a printing plate therewith. According to this method, the above imaging element is preferably exposed by means of a laser and is subsequently developed with plain water or an aqueous liquid.

IPC 1-7

B41M 5/36; 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); **B41M 5/366** (2013.01); **B41C 2210/04** (2013.01); **B41C 2210/08** (2013.01); **B41C 2210/24** (2013.01)

Cited by

US6165685A; EP0982124A3; EP1243413A1; EP0925916A1; EP1584470A3; EP0900653A1; EP1243410A1; US6124425A; EP1025990A1; US5919601A; EP1132200A3; US6939663B2; US6641976B2; US6551757B1; US6790590B2; US6177182B1; WO9821038A1; US6740464B2; EP3032334A1; EP2098376A1; EP2106924A1; EP1356926A1; EP4382306A1; WO2024120763A1; US6300032B1; WO2017157579A1; WO2017157572A1; WO2017157578A1; WO2017157571A1; WO2017157576A1; WO2017157575A1; US8419923B2; EP3637188A1; WO2020074258A1; EP2065211A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0773112 A1 19970514; EP 0773112 B1 20010530

DOCDB simple family (application)

EP 96202950 A 19961022