

Title (en)

Heat-sensitive lithographic printing plate precursor

Title (de)

Wärmeempfindlicher lithographischer Druckplattenvorläufer

Title (fr)

Précurseur de plaque d'impression lithographique thermosensible

Publication

EP 1738901 A1 20070103 (EN)

Application

EP 05105881 A 20050630

Priority

EP 05105881 A 20050630

Abstract (en)

A heat-sensitive lithographic printing plate precursor is disclosed which comprises a support having a hydrophilic surface and a coating which does not dissolve in an aqueous alkaline developer in the unexposed areas and which becomes soluble in an aqueous alkaline developer in the exposed areas, and an intermediate layer between said hydrophilic surface or said hydrophilic layer and said coating, wherein the intermediate layer comprises a first polymer having a first monomeric unit of formula I wherein R 1 , R 2 and R 3 are independently a hydrogen atom or an optionally substituted alkyl group, R 4 and R 5 are independently an optionally substituted alkyl, cycloalkyl, aryl or arylalkyl group. The precursor exhibits an excellent differentiation in dissolution kinetics between the exposed and non-exposed areas of the coating and a high chemical resistance against printing liquids and press chemicals.

IPC 8 full level

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

CPC (source: EP)

B41C 1/1016 (2013.01); **B41C 2201/04** (2013.01); **B41C 2210/02** (2013.01); **B41C 2210/06** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41C 2210/262** (2013.01)

Citation (search report)

- [AD] EP 1275498 A2 20030115 - FUJI PHOTO FILM CO LTD [JP]
- [AD] EP 1211065 A2 20020605 - FUJI PHOTO FILM CO LTD [JP]

Cited by

EP2047988A1; EP2042308A3; EP2042305A3; WO2011119342A1; WO2013032776A1; WO2009047112A1; WO2008115348A1; WO2011056358A2; EP2796927A1; WO2012145162A1; WO2013148495A2

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1738901 A1 20070103; **EP 1738901 B1 20080326**; DE 602005005657 D1 20080508; DE 602005005657 T2 20090416

DOCDB simple family (application)

EP 05105881 A 20050630; DE 602005005657 T 20050630