

Title (en)

Heat-sensitive lithographic printing plate precursor.

Title (de)

Wärmeempfindlicher lithographischer Druckplattevorläufer

Title (fr)

Précurseur de plaque d'impression lithographique sensible à la chaleur

Publication

EP 1543959 B1 20090715 (EN)

Application

EP 04101643 A 20040421

Priority

- EP 04101643 A 20040421
- EP 03104784 A 20031218

Abstract (en)

[origin: EP1543959A2] A heat-sensitive lithographic printing plate precursor is disclosed which comprises a hydrophilic support and an oleophilic coating thereon which comprises an infrared light-to-heat converter, an alkali-soluble binder and a polymeric developer accelerator. The polymeric developer accelerator is preferably a phenolic formaldehyde resin comprising at least 70 mol% of meta-cresol as recurring unit or at least 40 mol % of monohydroxy benzene cresol as recurring unit. The PDA may also be a phenolic resin which comprises at least 5 mol% of a recurring monomeric unit having at least one phenolic hydroxyl group and at least one alkali solubilising group. The polymeric developer accelerator improves the sensitivity while maintaining a good under-exposure latitude and a good developer resistance of the printing plate.

IPC 8 full level

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

CPC (source: EP)

B41C 1/1008 (2013.01); **B41C 1/1016** (2013.01); **B41C 2201/02** (2013.01); **B41C 2201/04** (2013.01); **B41C 2201/14** (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)

Cited by

GB2439734A; CN115427231A

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 1543959 A2 20050622; **EP 1543959 A3 20060111**; **EP 1543959 B1 20090715**

DOCDB simple family (application)

EP 04101643 A 20040421