

Title (en)

Dual-layer heat-sensitive imageable elements with phosphorous containing polymers in the top layer

Title (de)

Doppellagige, wärmeempfindliche, bilderzeugende Elemente mit Phosphor enthaltenden Polymeren in der Deckschicht

Title (fr)

Éléments imageables thermosensibles à deux couches avec polymères contenant du phosphore dans la couche supérieure

Publication

EP 1884359 A1 20080206 (EN)

Application

EP 06016333 A 20060804

Priority

EP 06016333 A 20060804

Abstract (en)

Heat-sensitive positive working element comprising: a) a substrate; b) a bottom layer, which is soluble or swellable in aqueous alkaline developers and comprises at least one first polymeric material soluble or swellable in aqueous alkaline developers and insoluble inorganic solvents of low polarity; and c) an ink-accepting top layer which is not soluble or dispersible in and not penetrable by an aqueous alkaline developer but is rendered soluble or dispersible in or penetrable by the developer upon exposure to heat and/or IR radiation, and which comprises a second polymeric material which is different from the first polymeric material, comprises a polymer backbone and pendant phosphonic acid groups and/or phosphate groups and has an acid number of up to 60 mg KOH/g polymer.

IPC 8 full level

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

CPC (source: EP)

B41C 1/1016 (2013.01); **B41C 2210/02** (2013.01); **B41C 2210/06** (2013.01); **B41C 2210/14** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41C 2210/262** (2013.01)

Citation (applicant)

- US 4708925 A 19871124 - NEWMAN STEPHEN [GB]
- GB 2082339 A 19820303 - HORSELL GRAPHIC IND LTD
- US 5372907 A 19941213 - HALEY NEIL F [US], et al
- US 6294311 B1 20010925 - SHIMAZU KEN-ICHI [US], et al
- EP 0864420 B1 20010530 - AGFA GEVAERT NV [BE]
- EP 1023994 B1 20040428 - AGFA GEVAERT [BE]
- EP 1275498 A2 20030115 - FUJI PHOTO FILM CO LTD [JP]
- DE 2500489 A1 19750717 - FORD WERKE AG

Citation (search report)

- [A] WO 2004020484 A1 20040311 - KODAK POLYCHROME GRAPHICS GMBH [DE], et al
- [AD] EP 1433594 A2 20040630 - FUJI PHOTO FILM CO LTD [JP]

Cited by

WO2011067382A1; EP2105298A1; EP2329951A1; CN102762381A; US9738064B2; JP2013254152A; US8101332B2

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1884359 A1 20080206

DOCDB simple family (application)

EP 06016333 A 20060804