

Title (en)

Double-layer infrared-sensitive imageable elements with polysiloxane toplayer

Title (de)

Zweischichtige infrarotempfindliche Bildaufzeichnungselemente mit Polysiloxanüberschicht.

Title (fr)

Éléments pour l'enregistrement à couche double sensibles aux rayons infrarouges munis d'une couche supérieure de polysiloxane

Publication

**EP 1747899 A1 20070131 (EN)**

Application

**EP 05016408 A 20050728**

Priority

EP 05016408 A 20050728

Abstract (en)

IR-sensitive imageable element comprising: (a) a substrate with a hydrophilic surface, b) a bottom layer, comprising at least one photothermal conversion material and at least one polymer A soluble or swellable in an aqueous alkaline developer and insoluble in organic solvents with low polarity, (c) a top layer, comprising at least one polysiloxane selected from arylpolysiloxanes and arylalkylpolysiloxanes having a glass transition temperature T<sub>g</sub> of more than 60 °C and a hydroxyl content of at least 1 % by weight.

IPC 8 full level

**B41M 5/36** (2006.01); **B41C 1/10** (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 2210/20** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01); **B41C 2210/264** (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 5491046 A 19960213 - DEBOER CHARLES D [US], et al
- US 5658708 A 19970819 - KONDO SYUNICHI [JP]
- DE 19850181 A1 20000531 - KODAK POLYCHROME GRAPHICS GMBH [DE]
- US 6358669 B1 20020319 - SAVARIAR-HAUCK CELIN [DE], et al
- US 6352811 B1 20020305 - PATEL JAYANTI [US], et al

Citation (search report)

- [AD] EP 1249341 A1 20021016 - AGFA GEVAERT [BE]
- [AD] WO 0035994 A1 20000622 - WACKER CHEMIE GMBH [DE], et al

Cited by

EP2105298A1; US8101332B2

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