

Title (en)

Thermographic recording material with phosphoric acid and derivative as lubricant

Title (de)

Wärmeempfindliches Auszeichnungsmaterial, das Phosphorsäurederivaten als Schmiermitteln enthält

Title (fr)

Matériaux pour l'enregistrement par la chaleur avec un dérivé de l'acide phosphorique comme lubrifiant

Publication

EP 0775595 A1 19970528 (EN)

Application

EP 96203127 A 19961108

Priority

- EP 96203127 A 19961108
- EP 95203246 A 19951127

Abstract (en)

A recording material comprising at least one thermosensitive element, comprising a substantially light-insensitive organic silver salt and an organic reducing agent therefor in thermal working relationship therewith, on a support, characterized in that an outermost layer of said recording material comprises at least one solid lubricant having a melting point below 150 DEG C and at least one liquid lubricant in a binder, wherein at least one of said lubricants is a phosphoric acid derivative. The outermost layer of the recording material in contact with the heat source during the thermal image forming process may be the outermost layer of the thermosensitive element, a protective layer applied to the thermosensitive element or a layer on the opposite side of the support to the thermosensitive element.

IPC 1-7

B41M 5/40; G03C 1/498

IPC 8 full level

G03C 1/498 (2006.01); **B41M 5/40** (2006.01); **B41M 5/42** (2006.01); **B41M 5/44** (2006.01)

CPC (source: EP)

G03C 1/4989 (2013.01); **B41M 5/42** (2013.01); **B41M 5/423** (2013.01); **B41M 5/426** (2013.01); **B41M 5/44** (2013.01); **G03C 1/32** (2013.01); **G03C 1/7614** (2013.01); **G03C 1/825** (2013.01); **G03C 1/85** (2013.01); **G03C 2001/7488** (2013.01); **G03C 2001/7628** (2013.01)

Citation (applicant)

- US 3080254 A 19630305 - GRANT JR EDWIN A
- US 3074809 A 19630122 - RICHARD OWEN
- WO 9411199 A1 19940526 - AGFA GEVAERT NV [BE], et al
- EP 0614769 A1 19940914 - AGFA GEVAERT NV [BE]
- WO 9411198 A1 19940526 - AGFA GEVAERT NV [BE], et al
- WO 9512495 A1 19950511 - AGFA GEVAERT NV [BE], et al
- US 4504575 A 19850312 - LEE ROSS A [US]
- EP 0227141 A1 19870701 - AGFA GEVAERT NV [BE]
- GB 1111492 A 19680424 - AGFA GEVAERT AG
- GB 1439478 A 19760616 - AGFA GEVAERT AG
- US 4260677 A 19810407 - WINSLOW JOHN M, et al
- US 4082901 A 19780404 - LARIDON URBAIN LEOPOLD, et al
- US 3094417 A 19630618 - WORKMAN WESLEY R
- US 3887378 A 19750603 - KLEIN ALFONS, et al
- US 3440049 A 19690422 - MOEDE JEROME ALBERT
- EP 0692733 A2 19960117 - AGFA GEVAERT NV [BE]
- US 4001026 A 19770104 - VANDENBERGHE ANTOON LEON, et al
- US 3547648 A 19701215 - SAGAWA BURT K
- US 4360581 A 19821123 - ODENWAEELDER HEINRICH, et al
- US 4782004 A 19881101 - TAKEUCHI MASASHI [JP], et al
- EP 0423891 A1 19910424 - AGFA GEVAERT NV [BE]
- US 3460946 A 19690812 - PUERCKHAUER GERHARD W R, et al
- US 5006451 A 19910409 - ANDERSON CHARLES C [US], et al
- US 3347675 A 19671017 - HENN RICHARD W, et al
- US 3667959 A 19720606 - BOJARA STANLEY M, et al
- US 3438776 A 19690415 - YUDELSON JOSEPH S
- US 4740446 A 19880426 - SCHRANZ KARL-WILHELM [DE], et al
- EP 0119615 A2 19840926 - FUJI PHOTO FILM CO LTD [JP]
- EP 0122512 A2 19841024 - FUJI PHOTO FILM CO LTD [JP]
- DE 3339810 A1 19840510 - FUJI PHOTO FILM CO LTD [JP]
- US 3446648 A 19690527 - WORKMAN WESLEY R
- US 3844797 A 19741029 - HEUGEBAERT F, et al
- US 3951660 A 19760420 - HAGEMANN HERMANN, et al
- EP 0194106 A2 19860910 - DAINIPPON PRINTING CO LTD [JP]
- EP 0234563 A2 19870902 - DAINIPPON PRINTING CO LTD [JP]
- US 3944699 A 19760316 - MATHEWS CARL FRASER, et al
- US 4187113 A 19800205 - DEVERELL CHRISTOPHER [GB], et al
- US 4780402 A 19881025 - REMMINGTON TIMOTHY A [GB]
- US 5059579 A 19911022 - HART CHARLES H [GB], et al
- EP 0440957 A2 19910814 - BAYER AG [DE]
- EP 0622217 A1 19941102 - AGFA GEVAERT NV [BE]
- APPLICATION CONTAINS STILL MORE REFERENCES.

Citation (search report)

- [XD] WO 9512495 A1 19950511 - AGFA GEVAERT NV [BE], et al
- [X] WO 9414618 A1 19940707 - AGFA GEVAERT NV [BE], et al

- [XD] WO 9411199 A1 19940526 - AGFA GEVAERT NV [BE], et al

Cited by

EP1186947A1; CN111471508A; US6207614B1; US6558895B2; US7071143B2; WO2005073802A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0775595 A1 19970528; EP 0775595 B1 19990915

DOCDB simple family (application)

EP 96203127 A 19961108