

Title (en)

Thermal image-forming process

Title (de)

Wärmeempfindliches Bildaufzeichnungsverfahren

Title (fr)

Procédé thermique pour former des images

Publication

EP 0775592 A1 19970528 (EN)

Application

EP 96203125 A 19961108

Priority

- EP 96203125 A 19961108
- EP 95203244 A 19951127

Abstract (en)

A thermal image forming process comprising the steps of: (i) bringing an outermost layer of a recording material comprising at least one thermosensitive element, comprising a substantially light-insensitive silver salt and a reducing agent therefor in thermal working relationship therewith, on a support into contact with a heat source; (ii) applying heat from the heat source imagewise to the recording material while maintaining mutual contact to but with relative movement between the recording material and the heat source; and (iii) separating the recording material from the heat source, characterized in that the dynamic frictional coefficient during the contact between the outermost surface of the recording material and the heat source has a maximum value of less than 0.3. The outermost layer in contact with the heat source 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 5/38; G03C 8/40; G03C 1/498

IPC 8 full level

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

CPC (source: EP)

G03C 1/49872 (2013.01); **G03C 1/4989** (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)

C-Set (source: EP)

1. **G03C 1/49872** + **G03C 1/32** + **G03C 2001/7488**
2. **G03C 1/49872** + **G03C 1/32** + **G03C 2001/7488**
3. **G03C 1/49872** + **G03C 1/32** + **G03C 2001/7488**

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
- 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 - ODENWAELDER 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]

- JACOBSON-RALPH K.I., JACOBSON E.: "Imaging Systems.", 1976, THE FOCAL PRESS., LONDON AND NEW YORK.
- RESEARCH DISCLOSURE., vol. 178, no. 042, February 1979 (1979-02-01)
- APPLICATION CONTAINS STILL MORE REFERENCES.

Citation (search report)

- [XD] WO 9512495 A1 19950511 - AGFA GEVAERT NV [BE], et al
- [XD] WO 9411198 A1 19940526 - AGFA GEVAERT NV [BE], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 25 (M - 787)<3373> 20 January 1989 (1989-01-20)

Cited by

EP1186947A1; CN115612396A; US6558895B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0775592 A1 19970528; EP 0775592 B1 20020911

DOCDB simple family (application)

EP 96203125 A 19961108