

Title (en)

LATENT IMAGE RECEIVING SHEET AND MICROCAPSULES FOR USE THEREIN

Publication

**EP 0587411 A3 19960410 (EN)**

Application

**EP 93307060 A 19930907**

Priority

US 94308992 A 19920910

Abstract (en)

[origin: EP0587411A2] A latent image receiving sheet comprises a substrate bearing microcapsules having walls of a nonmeltable polymer which is a thermosetting aminoplast resin. The walls of the microcapsules have an elongation less than 1%, and the image receiving sheet and microcapsules are resistant to heat. Surprisingly, the latent image receiving sheet capsules nonetheless rupture upon application to the record material of a point source energy input or pulse comprising a DELTA T of at least 115 DEG C per one millisecond. The latent image receiving sheet may be an ink transfer sheet or print plate, a gravure sheet, a cryptic message receiving sheet or an imageable sheet.

IPC 1-7

**B41M 5/28**; **B41C 1/055**; **G03F 7/00**; **B41M 5/165**; **B41M 5/38**

IPC 8 full level

**B01J 13/18** (2006.01); **B41C 1/055** (2006.01); **B41C 1/10** (2006.01); **B41M 1/06** (2006.01); **B41M 5/165** (2006.01); **B41M 5/28** (2006.01); **B41M 5/382** (2006.01); **G03F 7/004** (2006.01); **G03F 7/105** (2006.01)

CPC (source: EP)

**B41C 1/055** (2013.01); **B41C 1/1041** (2013.01); **B41M 5/165** (2013.01); **B41M 5/287** (2013.01); **B41M 5/38271** (2013.01)

Citation (search report)

- [X] US 4682194 A 19870721 - USAMI TOSHIMASA [JP], et al
- [X] US 4873168 A 19891010 - RUDER DONNA L [US], et al
- [A] EP 0109838 A2 19840530 - FUJI PHOTO FILM CO LTD [JP]

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0587411 A2 19940316**; **EP 0587411 A3 19960410**; **EP 0587411 B1 19971112**; AT E160113 T1 19971115; CA 2092232 A1 19940311; CA 2092232 C 20031209; DE 69315150 D1 19971218; DE 69315150 T2 19980305; ES 2108831 T3 19980101; FI 109190 B 20020614; FI 933936 A0 19930908; FI 933936 A 19940311; JP H06210156 A 19940802

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**EP 93307060 A 19930907**; AT 93307060 T 19930907; CA 2092232 A 19930323; DE 69315150 T 19930907; ES 93307060 T 19930907; FI 933936 A 19930908; JP 24591693 A 19930906