

Title (en)

Substantially light-insensitive thermographic recording material with improved stability and image-tone

Title (de)

Im wesentlichen lichtunempfindliches thermographisches Aufzeichnungsmaterial mit erhöhter Stabilität und verbessertem Bildton

Title (fr)

Matériau d'enregistrement thermographique pratiquement insensible à la lumière ayant une meilleure stabilité et un ton de l'image amélioré

Publication

EP 0901040 B1 20020403 (EN)

Application

EP 98202542 A 19980729

Priority

- EP 98202542 A 19980729
- EP 97202710 A 19970903

Abstract (en)

[origin: EP0901040A1] A substantially light-insensitive monosheet recording material comprising a support and a thermosensitive element containing a substantially light-insensitive organic silver salt, an organic reducing agent therefor in thermal working relationship therewith and a binder, characterized in that the thermosensitive element further contains an unsaturated carbocyclic or heterocyclic stabilizer compound substituted with a -SA group where A is hydrogen, a counterion to compensate the negative charge of the thiolate group or a group forming a symmetrical or an asymmetrical disulfide and the recording material is capable of producing prints with a numerical gradation value defined as the quotient of the fraction $(2.5 - 0.1)/(E_{2.5} - E_{0.1})$ greater than 2.3, where $E_{2.5}$ is the energy in Joule applied in a dot area of $87 \mu\text{m} \times 87 \mu\text{m}$ of the imaging layer that produces an optical density value of 2.5, and $E_{0.1}$ is the energy in Joule applied in a dot area of the imaging layer material that produces an optical density value of 0.1.

IPC 1-7

G03C 1/498

IPC 8 full level

G03C 1/498 (2006.01)

CPC (source: EP)

G03C 1/49845 (2013.01); **G03C 1/4989** (2013.01); **G03C 1/34** (2013.01); **G03C 1/346** (2013.01); **G03C 1/49872** (2013.01); **G03C 1/7614** (2013.01); **G03C 2001/7635** (2013.01); **G03C 2200/33** (2013.01); **G03C 2200/40** (2013.01)

Cited by

EP1598207A1; US7175977B2; US6902880B2; US7097961B2; US7294605B2; US6908731B2; US7060655B2

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0901040 A1 19990310; EP 0901040 B1 20020403

DOCDB simple family (application)

EP 98202542 A 19980729