

Title (en)
Heat-sensitive recording material.

Title (de)
Wärmeempfindliches Aufzeichnungsmaterial.

Title (fr)
Matériau d'enregistrement thermosensible.

Publication
EP 0286116 A2 19881012 (DE)

Application
EP 88105625 A 19880408

Priority
JP 8750387 A 19870409

Abstract (en)
[origin: JPS63252784A] PURPOSE:To obtain a thermal recording material show excellent optical readability in a near infrared region, by incorporating a specified infrared-absorbing fluoran leuco dye into a thermal color forming layer, in a thermal recording material comprising a chelate type thermal color forming layer using a metallic compound. CONSTITUTION:A near infrared-absorbing fluoran leuco dye of the formula is incorporated in a thermal color forming layer comprising an electron acceptor and an electron donor. Preferable examples of the fluoran leuco dye are 2- methyl-6-p(p-dimethylaminophenyl)aminoanilinofluoran (m.p. 197-203 deg.C) and 2-chloro-3-methyl-6-p-(p-phenylaminophenyl) aminoanilinofluoran (m.p. 191.5- 196 deg.C). In the formula, each of T1, T2 and T3 is hydrogen, a 1-8C alkyl, 3-9C alkenyl or 3-9C alkynyl, and T4 is hydrogen, a 1-8C alkyl, 3-9C alkenyl, 3-9C alkynyl or phenyl.

Abstract (de)
Es wird ein wärmeempfindliches Aufzeichnungsmaterial beschrieben, das in der Farbentwicklungsschicht einen Elektronenakzeptor, einen Elektronendonator und einen besonderen, im nahen Ultrarot absorbierenden Leukofarbstoff enthält, wobei der Elektronenakzeptor und der Elektronendonator unter Chelatbildung miteinander reagieren. Das erfindungsgemäße wärmeempfindliche Aufzeichnungsmaterial weist eine überlegene optische Lesbarkeit im nahen ultraroten Bereich auf.

IPC 1-7
B41M 5/26

IPC 8 full level
B41M 5/32 (2006.01); **B41M 5/323** (2006.01); **B41M 5/327** (2006.01); **B41M 5/333** (2006.01); **B41M 5/337** (2006.01); **G03C 1/498** (2006.01); **B41M 5/30** (2006.01)

CPC (source: EP US)
B41M 5/32 (2013.01 - EP US); **B41M 5/3275** (2013.01 - EP US); **B41M 5/3333** (2013.01 - EP US); **B41M 5/3335** (2013.01 - EP US); **G03C 1/4989** (2013.01 - EP US); **B41M 5/3336** (2013.01 - EP US); **Y10S 428/913** (2013.01 - EP US); **Y10S 428/914** (2013.01 - EP US)

Cited by
EP0287121A3; EP0307836A3; EP0599580A1; US5446009A; EP0574879A1; US5395815A

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DOCDB simple family (publication)
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DOCDB simple family (application)
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