

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

Designated contracting state (EPC)  
BE DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0286116 A2 19881012**; **EP 0286116 A3 19890412**; **EP 0286116 B1 19911211**; DE 3866752 D1 19920123; JP H066392 B2 19940126; JP S63252784 A 19881019; US 4853363 A 19890801

DOCDB simple family (application)  
**EP 88105625 A 19880408**; DE 3866752 T 19880408; JP 8750387 A 19870409; US 17814388 A 19880406