

Title (en)
Heat-sensitive registration material.

Title (de)
Wärmeempfindliches Aufzeichnungsmaterial.

Title (fr)
Matériel pour l'enregistrement thermosensible.

Publication
EP 0251209 A2 19880107 (DE)

Application
EP 87109140 A 19870625

Priority
JP 14919686 A 19860625

Abstract (en)
[origin: JPS634990A] PURPOSE:To obtain a thermal recording material excellent in light resistance, weatherability, oil resistance and optical readability in near infrared region, by incorporating an organic color developer and a fluorene leuco dye as a basic colorless dye into a thermal color forming layer. CONSTITUTION:At least one specified sulfonyldiphenol compound selected from the group consisting of 4,4'-dihydroxyphenylsulfone, 2,4'-dihydroxydiphenylsulfone and bis(3-tert-butyl-4-hydroxy-6-methylphenyl)sulfone is incorporated as an organic color developer in a thermal color forming layer, and a fluorene leuco dye of general formula (I) or (II) is incorporated as a basic colorless dye in the layer. When the specified fluorene leuco dye is brought into reaction with an electron-acceptive substance (color developer) in a thermally melted state to form a color, it absorbs light in a near infrared region (particularly, 700-1000 nm) extremely efficiently. Therefore, a thermal recording material excellent in optical readability in the near infrared region can be obtained.

Abstract (de)
Es wird ein wärmeempfindliches Aufzeichnungsmaterial beschrieben, das in der Farbentwicklungsschicht mindestens eine Substanz aus der Gruppe 4,4'-Dihydroxydiphenylsulfon, 2,4'-Dihydroxydiphenylsulfon und Bis-(3-tert.-butyl-4-hydroxy-6-methylphenyl)sulfon und einen besonderen Fluorenleukofarbstoff enthält. Das erfindungsgemäße Aufzeichnungsmaterial hat überlegene Beständigkeit gegenüber den Einwirkungen von Licht, Klima und Ölen, und bessere optische Lesbarkeit im nahen infraroten Bereich.

IPC 1-7
B41M 5/26

IPC 8 full level
B41M 5/327 (2006.01); **B41M 5/333** (2006.01); **B41M 5/337** (2006.01)

CPC (source: EP US)
B41M 5/3336 (2013.01 - EP US); **B41M 5/3377** (2013.01 - EP US); **Y10S 428/913** (2013.01 - EP US); **Y10S 428/914** (2013.01 - EP US)

Cited by
EP0616897A3; EP0410721A3; FR2713991A1; US5536697A; US5348930A; EP0618082A1

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