

Title (en)
HEAT-SENSITIVE REGISTRATION MATERIAL

Publication
EP 0251209 B1 19920415 (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-t-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.

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

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

DOCDB simple family (publication)
EP 0251209 A2 19880107; **EP 0251209 A3 19890906**; **EP 0251209 B1 19920415**; CA 1264549 A 19900123; DE 3778222 D1 19920521; JP S634990 A 19880109; US 4868151 A 19890919

DOCDB simple family (application)
EP 87109140 A 19870625; CA 540327 A 19870623; DE 3778222 T 19870625; JP 14919686 A 19860625; US 6066187 A 19870610