

Title (en)
THERMAL RECORDING MATERIAL

Title (de)
THERMISCHES AUFZEICHNUNGSMATERIAL

Title (fr)
MATERIAU POUR THERMOGRAVURE

Publication
EP 1199185 A1 20020424 (EN)

Application
EP 00921079 A 20000427

Priority

- JP 0002799 W 20000427
- JP 12267099 A 19990428
- JP 16331799 A 19990610
- JP 19176199 A 19990706
- JP 28967499 A 19991012

Abstract (en)

This invention relates to a thermal recording material with outstanding color-developing sensitivity and storage stability of images. The thermal recording material comprising a support and a thermosensitive color-developing layer provided thereon comprising a leuco dye which is colorless or light-colored at normal temperature, an organic acid substance which reacts upon heating with the leuco dye to develop color and a sensitizer. Said thermosensitive color-developing layer comprises at least one kind of diphenyl sulfone derivative selected from 4-hydroxydiphenyl sulfone derivatives represented by the following general formula (1) or general formula (2), 4,4'-dihydroxydiphenyl sulfone and 2,4'-dihydroxydiphenyl sulfone as an organic acid substance and a 4-acylbiphenyl as a sensitizer. <CHEM> (wherein R1 is an alkyl, aralkyl or aryl group) <CHEM> (wherein Y is a divalent organic group and n is an integer in the range 0-6)

IPC 1-7
B41M 5/30

IPC 8 full level
B41M 5/333 (2006.01); **B41M 5/337** (2006.01); **B41M 5/30** (2006.01); **B41M 5/40** (2006.01); **B41M 5/42** (2006.01)

CPC (source: EP KR)
B41M 5/30 (2013.01 - KR); **B41M 5/3336** (2013.01 - EP); **B41M 5/3375** (2013.01 - EP); **B41M 5/30** (2013.01 - EP); **B41M 5/42** (2013.01 - EP); **B41M 5/423** (2013.01 - EP)

Cited by
EP2181853A4; US8673812B2; US8466085B2; US8492308B2; US8609582B2; WO2006001814A1; US8247347B2; US8871678B2; US8283284B2

Designated contracting state (EPC)
DE ES FI FR GB IT

DOCDB simple family (publication)
EP 1199185 A1 20020424; **EP 1199185 A4 20041006**; AU 4144500 A 20001117; CA 2371443 A1 20001109; CN 1132742 C 20031231; CN 1351544 A 20020529; JP 3586428 B2 20041110; KR 20010112462 A 20011220; WO 0066364 A1 20001109

DOCDB simple family (application)
EP 00921079 A 20000427; AU 4144500 A 20000427; CA 2371443 A 20000427; CN 00807904 A 20000427; JP 0002799 W 20000427; JP 2000615226 A 20000427; KR 20017013667 A 20011025