

Title (en)

A reversible thermosensitive recording material and a recording medium using the same

Title (de)

Reversibles, wärmeempfindliches Aufzeichnungsmaterial und ein Aufzeichnungsmaterial, das dieses Material verwendet

Title (fr)

Matériau d'enregistrement thermosensible réversible et un matériau d'enregistrement l'utilisant

Publication

EP 0506085 B1 19990602 (EN)

Application

EP 92105309 A 19920327

Priority

- JP 6485791 A 19910328
- JP 6485991 A 19910328
- JP 6486091 A 19910328
- JP 6487391 A 19910328
- JP 6488791 A 19910328
- JP 24101691 A 19910920
- JP 24101791 A 19910920
- JP 25085591 A 19910930
- JP 25890691 A 19911007
- JP 28591791 A 19911031

Abstract (en)

[origin: EP0506085A1] A reversible thermosensitive recording material capable of recording and erasing information by heat is provided. Also, a recording medium which comprises a substrate, a recording layer made of the above-mentioned recording material, and a protective layer stacked in this order is provided. The recording material of the present invention is made of a composition comprising a matrix polymer and organic crystal particles dispersed therein. The organic crystal particles are melted by heating and a different crystalline state is obtained in accordance with a temperature in heating. The matrix polymer and the organic crystal particles respectively have a group capable of forming a hydrogen bond. The organic crystal particles can be micro-capsulated by a matrix polymer for capsulation. In order to improve endurance, the recording layer can comprise spacer particles. As the protective layer of the medium, polyimide excellent in heat resistance or a polymer which comprises ultra-fine particles of an oxide is used. If required, an adhesive layer is provided between the substrate and a recording layer. <IMAGE>

IPC 1-7

B41M 5/36

IPC 8 full level

B41M 5/36 (2006.01)

CPC (source: EP)

B41M 5/363 (2013.01)

Cited by

EP1058247A1; US5914482A; EP0624481A3; US5604175A; US6700852B1; US6944117B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0506085 A1 19920930; EP 0506085 B1 19990602; DE 69229292 D1 19990708; DE 69229292 T2 20000127

DOCDB simple family (application)

EP 92105309 A 19920327; DE 69229292 T 19920327