

Title (en)

Antihalation dye for photothermographic recording material and a recording process therefor

Title (de)

Lichthofschutzfarbstoff für ein photothermographisches Aufzeichnungsmaterial und dieses Material verwendendes Aufzeichnungsverfahren

Title (fr)

Colorants anti-halo pour un matériau d'enregistrement photothermographique et procédé d'enregistrement utilisant ce matériau

Publication

EP 0810468 B1 20020403 (EN)

Application

EP 97201566 A 19970528

Priority

- EP 97201566 A 19970528
- EP 96201529 A 19960601

Abstract (en)

[origin: EP0810468A1] A photothermographic recording material comprising a support; a photo-addressable thermally developable element comprising a substantially light-insensitive organic silver salt, photosensitive silver halide in catalytic association with the substantially light-insensitive organic silver salt spectrally sensitized to the infrared region of the electromagnetic spectrum and a binder; and in a hydrophobic layer an antihalation dye according to the general formula (I): <CHEM> wherein R<1> and R<15> independently represent an alkyl group or an alkyl group substituted with at least one fluorine, chlorine, bromine or an alkoxy-, aryloxy- or ester-group; R<2>, R<3>, R<16> and R<17> independently represent an alkyl group; R<4>, R<5>, R<6>, R<7>, R<18>, R<19>, R<20> and R<21> independently represent hydrogen, chlorine, bromine, fluorine or a keto-, sulfo-, carboxy-, ester-, sulfonamide-, substituted sulfonamide-, amide-, substituted amide-, dialkylamino-, nitro-, cyano-, alkyl-, substituted alkyl-, alkenyl-, substituted alkenyl-, aryl-, substituted aryl-, alkoxy-, substituted alkoxy-, aryloxy- or substituted aryloxy-group, which groups may be substituted; or each of R<4> together with R<5>, R<5> together with R<6>, R<6> together with R<7>, R<18> together with R<19>, R<19> together with R<20> or R<20> together with R<21> may independently constitute the atoms necessary to complete a benzene ring which may be substituted; R<8>, R<9>, R<10> and R<11> independently represent hydrogen, an alkyl group or each of R<1> together with R<8>, R<8> together with R<9>, R<9> together with R<10>, R<10> together with R<11> or R<11> together with R<15> may independently constitute the atoms necessary to complete a 5-atom or 6-atom carbocyclic or heterocyclic ring which may be substituted; R<12>, R<13> and R<14> independently represent hydrogen, chlorine, bromine or fluorine; and A<-> is a fluorinated alkyl or aryl anion in which the degree of fluorination is greater than 70%; a production process therefor and a photothermographic recording process therefor.

IPC 1-7

G03C 1/498

IPC 8 full level

G03C 1/498 (2006.01)

CPC (source: EP)

G03C 1/49872 (2013.01); **G03C 1/127** (2013.01); **G03C 1/49854** (2013.01); **G03C 1/825** (2013.01); **G03C 1/832** (2013.01); **G03C 5/164** (2013.01)

C-Set (source: EP)

1. **G03C 1/49854** + **G03C 5/164**
2. **G03C 1/49872** + **G03C 1/832** + **G03C 1/127** + **G03C 1/825**

Cited by

US6316172B1; EP0974866A1; US6562561B1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0810468 A1 19971203; EP 0810468 B1 20020403

DOCDB simple family (application)

EP 97201566 A 19970528