

Title (en)

Photothermographic recording material comprising a hydrazine compound and a recording process therefor

Title (de)

Eine Hydrazinverbindung enthaltendes photothermographisches Aufzeichnungsmaterial und Aufzeichnungsverfahren dafür

Title (fr)

Matériau d'enregistrement photothermographique comprenant un composé d'hydrazine et procédé d'enregistrement associé

Publication

EP 0821269 B1 20040512 (EN)

Application

EP 97201901 A 19970621

Priority

- EP 97201901 A 19970621
- EP 96202106 A 19960724

Abstract (en)

[origin: EP0821269A1] A photothermographic recording material comprising a support and a photo-addressable thermally developable element comprising a substantially light-insensitive organic silver salt, a reducing agent therefor in thermal working relationship therewith, photosensitive silver halide spectrally sensitized with a dye and in catalytic association with the substantially light-insensitive organic silver salt and a binder, characterized in that the photo-addressable thermally developable element further comprises a hydrazine compound corresponding to the general formula (I): <CHEM> wherein: Z represents the necessary atoms to close a substituted or unsubstituted heterocyclic ring which is either a five-membered ring containing at least two heteroatoms or a six-membered ring, which ring may carry one or more fused-on rings, and which ring must contain a C-H bond permitting oxidative aromatisation to an acyl-onium group by means of a hydride shift or a consecutive 2-electron-proton transfer; each of R<1> and R<2> independently represents a hydrogen atom or an alkali-labile group giving rise to a hydrogen atom on hydrolysis; X is an acyl group selected from the group consisting of CO-R<3>, CS-R<4>, PO-R<5>R<6> and (CN-R<7>)-R<8>, wherein each of R<3> to R<8> independently represents alkyl, aryl, cycloalkyl, heterocycloalkyl, heteroaryl, O-alkyl, O-aryl, O-heteroaryl, O-heterocycloalkyl, S-alkyl, S-aryl, S-heterocycloalkyl, S-heteroaryl or N-R<9>R<10>, wherein each of R<9> and R<10> independently represents hydrogen, aryl, alkyl, heteroaryl, heterocycloalkyl or acyl as defined for X, and wherein all the defined R-groups may carry substituents, and wherein R<5> together with R<6>, and R<9> together with R<10> may represent the necessary atoms to close a ring.

IPC 1-7

G03C 1/498

IPC 8 full level

G03C 1/498 (2006.01)

CPC (source: EP)

G03C 1/49836 (2013.01)

Cited by

EP0974866A1; US6562561B1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0821269 A1 19980128; EP 0821269 B1 20040512

DOCDB simple family (application)

EP 97201901 A 19970621