

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

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Application

EP 97201901 A 19970621

Priority

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- EP 96202106 A 19960724

Abstract (en)

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.

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G03C 1/498

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Citation (search report)

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