

Title (en)

Process for preparing an Infra-red photothermographic material comprising a spectral sensitizer and a stilbene derivative supersensitizer and image recording method

Title (de)

Verfahren zur Herstellung eines photothermographischen Infrarotmaterials, das einen Spektralsensibilisator und einen Stilbenderivat-Supersensibilisator enthält und ein Aufzeichnungsverfahren

Title (fr)

Procédé pour la production d'un produit photothermographique sensible à l'infra-rouge comprenant un sensibilisateur spectral et un supersensibilisateur à base de stilbene et procédé d'enregistrement.

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0821271A1] A photothermographic recording material comprising 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 and spectrally sensitized to infra-red light with a dye, a supersensitizer for the dye, a reducing agent in thermal working relationship with the substantially light-insensitive organic silver salt and a binder, characterized in that the binder comprises a water soluble polymer, a water-dispersible polymer or a water soluble polymer and a water-dispersible polymer; the dye absorbs electromagnetic radiation in the wavelength range from 700 to 1100nm; and the supersensitizer is a stilbene compound represented by general formula (I): <CHEM> wherein R<1>, R<2>, R<3> and R<4> are independently hydrogen or alkyl, aryl, aralkyl, alkaryl, alkoxy or aryloxy groups, which may all be substituted; and R<5>, R<6>, R<7>, R<8>, R<9>, R<10>, R<11> and R<12> are independently hydrogen and alkyl, substituted alkyl, alkoxy, substituted alkoxy, carboxy or sulfo groups.

IPC 8 full level

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