

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  
**EP 97201904 A 19970621**

Priority  
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Abstract (en)  
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.

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Citation (search report)  
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• [A] JP S5828737 A 19830219 - KONISHIROKU PHOTO IND  
• [A] EP 0609571 A1 19940810 - AGFA GEVAERT NV [BE]  
• [DX] DATABASE WPI Section PQ Week 8810, Derwent World Patents Index; Class P83, AN 88-068085, XP002043732  
• [A] DATABASE WPI Section PQ Week 8641, Derwent World Patents Index; Class P83, AN 86-267419, XP002024492  
• [A] J.A. VERDONE ET AL: "POLYMERIC BINDERS FOR PHOTOTHERMOGRAPHIC MATERIALS", RESEARCH DISCLOSURE, no. 186, October 1979 (1979-10-01), HAVANT GB, pages 573, XP002024491

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