

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
EP 0821271 B1 20060419 (EN)

Application
EP 97201904 A 19970621

Priority
• EP 97201904 A 19970621
• EP 96202107 A 19960724

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
G03C 1/28 (2006.01); **G03C 1/498** (2006.01); **G03C 5/16** (2006.01)

CPC (source: EP)
G03C 1/28 (2013.01); **G03C 1/49854** (2013.01); **G03C 5/164** (2013.01)

Cited by
WO2017123444A1; US10473658B2; US11193932B2

Designated contracting state (EPC)
BE DE FR GB

DOCDB simple family (publication)
EP 0821271 A1 19980128; EP 0821271 B1 20060419

DOCDB simple family (application)
EP 97201904 A 19970621