Title (en)

Stabilizers for use in substantially light-insensitive thermographic recording materials.

Title (de)

Stabilisatoren zur Verwendung in thermographischen Aufzeichnungsmaterialien die im wesentlichen lichtunempfindlich sind

Title (fr)

Stabilisateurs à utiliser dans des matériaux d' enregistrement thermographiques essentiellement non photosensibles

Publication

EP 1598207 B1 20080116 (EN)

Application

EP 05102620 A 20050404

Priority

- EP 04102147 A 20040517
- EP 05102620 A 20050404

Abstract (en)

[origin: EP1598207A1] A substantially light-insensitive black and white monosheet thermographic recording material comprising a support and a thermosensitive element, said thermosensitive element containing a substantially light-insensitive organic silver salt, an organic reducing agent therefor in thermal working relationship therewith, at least one binder and at least one stabilizer represented by formula (I): <CHEM> wherein R<1>, R<2>, R<3> and R<4> are independently selected from the group consisting of a hydrogen atom, halogen atoms and aliphatic, alkoxy, nitro, acyl, sulfonyl, nitrile, alkaryl, aryl, amino, thioalkyl, aldehyde, urea, -O-(C=O)-alkyl, -O-(C=O)-aryl, -O-(C=O)-O-alkyl, -O-(C=O)-O-aryl, -NH-(C=O)-alkyl, -NH-(C=O)-aryl, -(C=O)-NH-alkyl, -(C=O)-NH-aryl, -NH-(SO2)-alkyl, -NH-(SO2)-aryl, -(SO2)-NH-alkyl, -(SO2)-NH-aryl groups; X is represented by -A(-M)n or is selected from the group consisting of substituted aliphatic groups, unsubstituted aliphatic groups, substituted cycloaliphatic groups, unsubstituted cycloaliphatic groups, substituted aromatic groups and unsubstituted aromatic groups where in each of said groups one or more of the chain or ring carbon atoms may be substituted by one of more atoms selected from the group consisting of S, O, Si, N and P atoms; n is 2, 3 or 4; A is selected from the group consisting of substituted aliphatic groups, unsubstituted aliphatic groups, substituted cycloaliphatic groups, unsubstituted cycloaliphatic groups, substituted aromatic groups and unsubstituted aromatic groups where in each of said groups one or more of the chain or ring carbon atoms may be substituted by one of more atoms selected from the group consisting of S, O, Si, N and P atoms; each (-M) is independently a substituted or unsubstituted group selected from the group consisting of -(2-S-imidazole) groups and -(2-S-imidazole) groups annelated with an aromatic ring system, the optional substituents for -M being selected from the group consisting of halogen atoms and aliphatic, alkoxy, nitro, acyl, sulfonyl, nitrile, alkaryl and aryl groups.

IPC 8 full level

B41M 5/30 (2006.01); **B41M 5/32** (2006.01); **B41M 5/337** (2006.01); **G03C 1/498** (2006.01)

CPC (source: EP)

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Designated contracting state (EPC)

DE FR GB

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