

## 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 A1 20051123 (EN)**

## Application

**EP 05102620 A 20050404**

## Priority

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- EP 05102620 A 20050404

## Abstract (en)

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-(SO<sub>2</sub>)-alkyl, -NH-(SO<sub>2</sub>)-aryl, -(SO<sub>2</sub>)-NH-alkyl, -(SO<sub>2</sub>)-NH-aryl groups; X is represented by -A(-M)<sub>n</sub> 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.

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## IPC 8 full level

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- [XA] EP 0901040 A1 19990310 - AGFA GEVAERT NV [BE]
- [Y] EP 0897130 A1 19990217 - FUJI PHOTO FILM CO LTD [JP]
- [Y] EP 0353724 A1 19900207 - FUJI PHOTO FILM CO LTD [JP]
- [Y] JP S62161144 A 19870717 - FUJI PHOTO FILM CO LTD
- [Y] US 5084376 A 19920128 - SUDA YOSHIHIKO [JP], et al
- [Y] DE 2558951 A1 19760708 - CANON KK
- [Y] US 4728600 A 19880301 - HARA HIROSHI [JP], et al
- [Y] EP 1143292 A2 20011010 - KONISHIROKU PHOTO IND [JP]
- [Y] EP 1241520 A2 20020918 - KONISHIROKU PHOTO IND [JP]
- [Y] EP 1278101 A2 20030122 - KONISHIROKU PHOTO IND [JP]
- [Y] JP 2001013618 A 20010119 - KONISHIROKU PHOTO IND
- [PX] EP 1484641 A1 20041208 - AGFA GEVAERT [BE]
- [PX] EP 1484642 A1 20041208 - AGFA GEVAERT [BE]

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