

Title (en)

Novel reducing agents for use in thermographic recording materials

Title (de)

Neue Reduktionsmittel zur Verwendung in thermographischen Aufzeichnungsmaterialien

Title (fr)

Nouveaux agents réducteurs pour l'utilisation en matériaux d'enregistrements thermographiques

Publication

EP 0903625 A1 19990324 (EN)

Application

EP 98202551 A 19980730

Priority

- EP 98202551 A 19980730
- EP 97202872 A 19970917

Abstract (en)

A substantially light-insensitive black and white monosheet thermographic recording material is provided comprising a support and a thermosensitive element containing a substantially light-insensitive organic silver salt, a 1,2-dihydroxyphenyl-compound in thermal working relationship therewith and a binder, characterized in that the 1,2-dihydroxyphenyl-compound is represented by formula (I): <CHEM> where R is $-\text{P}(=\text{O})\text{R}_{<1>}\text{R}_{<2>}$, $-\text{SOxR}_{<3>}$, $-\text{CN}$, $-\text{NO}_2$ or $-\text{CR}_{<4>}=\text{NR}_{<5>}$ when n is 0; R is $-\text{P}(=\text{O})\text{R}_{<1>}\text{R}_{<2>}$, $-\text{SOxR}_{<3>}$, $-\text{CN}$, $-\text{NO}_2$, $-\text{CR}_{<4>}=\text{NR}_{<5>}$ or $-\text{COR}_{<6>}$ when n is an integer; $\text{R}_{<1>}$ and $\text{R}_{<2>}$ are independently an alkyl, a substituted alkyl, an aryl, a substituted aryl group, an alkoxy, a substituted alkoxy, an aryloxy, a substituted aryloxy, a hydroxy group, an amino group or a substituted amino group; $\text{R}_{<3>}$ is an alkyl, a substituted alkyl, an aryl, a substituted aryl, an amino or a substituted amino group; $\text{R}_{<4>}$ is an alkyl, a substituted alkyl, an aryl or a substituted aryl group or hydrogen; $\text{R}_{<5>}$ is an alkyl, a substituted alkyl, an aryl, a substituted aryl, a hydroxy, an alkoxy, an aryloxy, an acyl, an amino or a substituted amino group; $\text{R}_{<6>}$ is an alkyl, a substituted alkyl, an aryl, a substituted aryl, an alkoxy, a substituted alkoxy, an aryloxy, a substituted aryloxy, a hydroxy, an amino or a substituted amino group or hydrogen; x is 1, 2 or 3; and the benzene ring of the 1,2-dihydroxyphenyl-compound represented by the formula (I) may be further substituted.

IPC 1-7

G03C 1/498

IPC 8 full level

G03C 1/498 (2006.01)

CPC (source: EP)

G03C 1/49827 (2013.01); **G03C 1/4989** (2013.01); **G03C 2200/45** (2013.01)

Citation (search report)

- [X] EP 0599580 A1 19940601 - JUJO PAPER CO LTD [JP]
- [X] EP 0248405 A2 19871209 - JUJO PAPER CO LTD [JP]

Cited by

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