

Title (en)

Binders for use in the thermosensitive elements of substantially light-insensitive thermographic recording materials.

Title (de)

Bindemittel zur Verwendung in wärmeempfindlichen Elementen von thermographischen Aufzeichnungsmaterialien, die im wesentlichen lichtunempfindlich sind

Title (fr)

Liants pour emploi dans les éléments sensibles à la chaleur de matériaux d'enregistrement thermographiques sensiblement non-sensibles à la lumière

Publication

EP 1484641 A1 20041208 (EN)

Application

EP 04102270 A 20040525

Priority

- EP 04102270 A 20040525
- EP 03101660 A 20030606

Abstract (en)

A substantially light-insensitive monosheet thermographic recording material comprising a support and on one side of the support a thermosensitive element, the thermosensitive element comprising at least one substantially light-insensitive silver salt of a carboxylic acid, at least one reducing agent therefor in thermal working relationship therewith and at least one binder, the at least one binder comprising at least one first polymer consisting of vinyl aceto-acetal monomer units, vinyl butyral monomer units and monomer units selected from the group consisting of, vinyl alcohol, vinyl acetate and itaconic acid monomer units, characterized in that the weight ratio of the at least one binder to the light-insensitive silver salt(s) of a carboxylic acid in the thermosensitive element is greater than 1.5; and the at least one binder optionally contains less than 40% by weight of a second polymer consisting of vinyl butyral monomer units and optionally vinyl alcohol and/or vinyl acetate monomer units.

IPC 1-7

G03C 1/498

IPC 8 full level

G03C 1/498 (2006.01)

CPC (source: EP)

G03C 1/4989 (2013.01); **G03C 1/04** (2013.01); **G03C 1/49863** (2013.01); **G03C 1/49872** (2013.01); **G03C 2001/7635** (2013.01)

Citation (search report)

- [DY] JP 2001013618 A 20010119 - KONISHIROKU PHOTO IND
- [DY] EP 1143292 A2 20011010 - KONISHIROKU PHOTO IND [JP]
- [DY] EP 0752616 A1 19970108 - AGFA GEVAERT NV [BE]
- [DY] EP 0809144 A1 19971126 - AGFA GEVAERT NV [BE]

Citation (examination)

- US 6162597 A 20001219 - BAUER CHARLES L [US], et al
- EP 0883022 A1 19981209 - FUJI PHOTO FILM CO LTD [JP]
- EP 1014179 A1 20000628 - AGFA GEVAERT NV [BE]
- EP 0964299 A2 19991215 - AGFA GEVAERT NV [BE]
- EP 0940714 A2 19990908 - IMATION CORP [US]
- EP 0922995 A1 19990616 - AGFA GEVAERT NV [BE]
- EP 0921434 A1 19990609 - AGFA GEVAERT NV [BE]
- EP 0903628 A2 19990324 - AGFA GEVAERT NV [BE]
- EP 0903626 A1 19990324 - AGFA GEVAERT NV [BE]
- EP 0889355 A1 19990107 - AGFA GEVAERT NV [BE]
- EP 0848286 A1 19980617 - AGFA GEVAERT NV [BE]
- EP 0810467 A1 19971203 - AGFA GEVAERT NV [BE]
- EP 0681210 A1 19951108 - MINNESOTA MINING & MFG [US]
- EP 0678776 A2 19951025 - EASTMAN KODAK CO [US]
- EP 0516163 A1 19921202 - POLAROID CORP [US]
- EP 0354533 A1 19900214 - EASTMAN KODAK CO [US]
- WO 9734196 A1 19970918 - IMATION CORP [US]
- WO 9711407 A1 19970327 - IMATION CORP [US]
- WO 9615478 A2 19960523 - MINNESOTA MINING & MFG [US]
- US 2003044732 A1 20030306 - GEISLER THOMAS C [US], et al
- US 2002150849 A1 20021017 - EMMERS SABINE [BE], et al
- US 6472131 B1 20021029 - WHITCOMB DAVID R [US]
- US 6420102 B1 20020716 - BAUER CHARLES L [US], et al
- US 6355408 B1 20020312 - WHITCOMB DAVID R [US], et al
- US 6352820 B1 20020305 - BAUER CHARLES L [US], et al
- US 6312885 B1 20011106 - FUJITA MUNEHISA [JP], et al
- US 6310001 B1 20011030 - UYTENDAELE CARLO [BE], et al
- US 6274297 B1 20010814 - UYTTERHOEVEN HERMAN [BE], et al
- US 6270951 B1 20010807 - MICHIELS EDDY [BE], et al
- US 6184179 B1 20010206 - GILLIAMS YVAN [BE], et al
- US 6180165 B1 20010130 - UYTENDAELE CARLO [BE], et al
- US 6165707 A 20001226 - HIRANO SHIGEO [JP], et al
- US 6159667 A 20001212 - EMMERS SABINE [BE], et al
- US 6146822 A 20001114 - ASANUMA NAOKI [JP], et al
- US 6146821 A 20001114 - STRIJKERS HANS [BE]
- US 6130033 A 20001010 - DEFIEUW GEERT [BE], et al
- US 6096486 A 20000801 - EMMERS SABINE [BE], et al
- US 6093525 A 20000725 - BAUER CHARLES L [US], et al

- US 6063559 A 20000516 - UYTENDAELE CARLO [BE], et al
- US 6037114 A 20000314 - HOOGMARTENS IVAN [BE], et al
- US 6020117 A 20000201 - BAUER CHARLES L [US], et al
- US 5989796 A 19991123 - MOON ALICE [US]
- US 5981156 A 19991109 - MELPOLDER SHARON M [US], et al
- US 5976776 A 19991102 - NAIR MRIDULA [US], et al
- US 5965348 A 19991012 - TOYA ICHIZO [JP]
- US 5891610 A 19990406 - BAUER CHARLES L [US], et al
- US 5883042 A 19990316 - DEFIEUW GEERT [BE], et al
- US 5811530 A 19980922 - ARNOST MICHAEL J [US], et al
- US 5783380 A 19980721 - SMITH DENNIS EDWARD [US], et al
- US 5686228 A 19971111 - MURRAY THOMAS J [US], et al
- US 5667933 A 19970916 - CARGILL GARY E [US], et al
- US 5654130 A 19970805 - MURRAY THOMAS J [US]
- US 5635339 A 19970603 - MURRAY THOMAS J [US]
- US 5599647 A 19970204 - DEFIEUW GEERT [BE], et al
- US 5558983 A 19960924 - SIMPSON SHARON M [US], et al
- US 5545515 A 19960813 - MURRAY THOMAS J [US], et al
- US 5545507 A 19960813 - SIMPSON SHARON M [US], et al
- US 5545505 A 19960813 - SIMPSON SHARON M [US]
- US 5532121 A 19960702 - YONKOSKI ROGER K [US], et al
- US 5496695 A 19960305 - SIMPSON SHARON M [US], et al
- US 5491059 A 19960213 - WHITCOMB DAVID R [US]
- US 5468603 A 19951121 - KUB THOMAS J [US]
- US 5464738 A 19951107 - LYNCH DOREEN C [US], et al
- US 5422234 A 19950606 - BAUER CHARLES L [US], et al
- US 5418120 A 19950523 - BAUER CHARLES L [US], et al
- US 5411929 A 19950502 - FORD MAUREEN F [US], et al
- US 5393649 A 19950228 - BAUER CHARLES L [US], et al
- US 5360706 A 19941101 - ANDERSON CHARLES C [US], et al
- US 5350669 A 19940927 - WHITCOMB DAVID R [US], et al
- US 5294526 A 19940315 - PRZEZDZIECKI WOJCIECH M [US], et al
- US 5264334 A 19931123 - PRZEZDZIECKI WOJCIECH M [US], et al
- US 4469773 A 19840904 - ADIN ANTHONY [US], et al
- US 4426441 A 19840117 - ADIN ANTHONY [US], et al
- US 4201582 A 19800506 - WHITE RICHARD L [US]
- US 4021240 A 19770503 - CERQUONE FELICE MARY, et al

Cited by

EP1598207A1; CN111483252A; US8721990B2; US7097961B2; US9851364B2; DE102008045070A1; EP2469269A1; EP2031376A2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1484641 A1 20041208

DOCDB simple family (application)

EP 04102270 A 20040525