

Title (en)

Photographic processing composition and processing method using the same

Title (de)

Photographische Verarbeitungszusammensetzung und diese verwendendes Verarbeitungsverfahren

Title (fr)

Composition de traitement photographique et méthode de traitement l'utilisant

Publication

EP 0720049 A2 19960703 (EN)

Application

EP 96103402 A 19910507

Priority

- EP 91107440 A 19910507
- JP 11925090 A 19900509
- JP 12858890 A 19900518
- JP 17502690 A 19900702

Abstract (en)

A photographic processing composition containing at least one compound represented by formula (I) <CHEM> wherein R, R1 and R2 each represent a hydrogen atom, an alkyl group or an aryl group; and L1 represents an alkylene group or an arylene group. Also disclosed a processing composition for a silver halide color photographic material containing a metal chelate compound formed from a compound represented by formula (I) and a metal salt selected from salts of Fe(III), Mn(III), Co(III), Rh(II), Rh(III), Au(III), Au(II) and Ce(IV). A method is also disclosed for processing a silver halide photographic material with the processing compositions.

IPC 1-7

G03C 7/42

IPC 8 full level

G03C 5/26 (2006.01); **G03C 5/305** (2006.01); **G03C 7/413** (2006.01); **G03C 7/42** (2006.01)

CPC (source: EP)

G03C 5/268 (2013.01); **G03C 5/305** (2013.01); **G03C 5/3053** (2013.01); **G03C 7/413** (2013.01); **G03C 7/42** (2013.01)

Citation (applicant)

- JP S4830496 B1 19730920
- DE 1290812 B 19690313 - AGFA GEVAERT AG
- JP S5697347 A 19810806 - FUJI PHOTO FILM CO LTD
- JP S5395630 A 19780822 - FUJI PHOTO FILM CO LTD
- DE 2227639 A1 19740103 - AGFA GEVAERT AG, et al
- US 3706561 A 19721219 - MOWREY ROWLAND G, et al
- JP S5342730 A 19780418 - FUJI PHOTO FILM CO LTD
- JP S458836 B1
- JP S55126241 A 19800929 - KONISHIROKU PHOTO IND
- JP 3716088 B2 20051116
- JP S58195845 A 19831115 - EASTMAN KODAK CO
- JP 3387826 B2 20030317
- JP S5340900 B2 19781030
- JP S459019 B1
- JP H01213657 A 19890828 - FUJI PHOTO FILM CO LTD
- JP S5249829 A 19770421 - KONISHIROKU PHOTO IND
- US 3893858 A 19750708 - WABNITZ JR HERBERT E
- JP S50137726 A 19751101
- JP S5395630 A 19780822 - FUJI PHOTO FILM CO LTD
- JP S56156826 A 19811203 - FUJI PHOTO FILM CO LTD
- US 3706561 A 19721219 - MOWREY ROWLAND G, et al
- US 2494903 A 19500117 - SHEIDLER ROBERT G
- US 3128182 A 19640407 - BARD CHARLETON C, et al
- US 4230796 A 19801028 - GUNTHER HERBERT, et al
- JP H01298935 A 19891201 - HONEYWELL INC
- JP 4111431 B2 20080702
- JP S62183460 A 19870811 - FUJI PHOTO FILM CO LTD
- US 2596926 A 19520513 - GUNTHER ROBERT C, et al
- JP S635341 A 19880111 - FUJI PHOTO FILM CO LTD
- JP S4225201 B1
- JP S6343138 A 19880224 - FUJI PHOTO FILM CO LTD
- JP S4223883 B1
- JP S6344657 A 19880225 - FUJI PHOTO FILM CO LTD
- JP S61201247 A 19860905 - EASTMAN KODAK CO
- JP S6344656 A 19880225 - FUJI PHOTO FILM CO LTD
- JP S6375747 A 19880406 - EASTMAN KODAK CO
- JP S634235 A 19880109 - FUJI PHOTO FILM CO LTD
- US 4199363 A 19800422 - CHEN TSANG J [US]
- JP S6321647 A 19880129 - FUJI PHOTO FILM CO LTD
- DE 2541230 A1 19760526 - EASTMAN KODAK CO
- JP S6327841 A 19880205 - FUJI PHOTO FILM CO LTD
- JP S6330845 A 19880209 - FUJI PHOTO FILM CO LTD
- JP S6314640 A 19880121 - NAGAOKA HITOSHI
- JP S6343139 A 19880224 - FUJI PHOTO FILM CO LTD
- JP S6326655 A 19880204 - FUJI PHOTO FILM CO LTD
- JP S6344655 A 19880225 - FUJI PHOTO FILM CO LTD

- JP S6353551 A 19880307 - FUJI PHOTO FILM CO LTD
- JP S6343140 A 19880224 - FUJI PHOTO FILM CO LTD
- JP S6353549 A 19880307 - FUJI PHOTO FILM CO LTD
- JP S6356654 A 19880311 - FUJI PHOTO FILM CO LTD
- JP S63239447 A 19881005 - FUJI PHOTO FILM CO LTD
- JP S5744148 A 19820312 - KONISHIROKU PHOTO IND
- JP S5753749 A 19820330 - KONISHIROKU PHOTO IND
- JP S59180588 A 19841013 - TOSHIBA ELECTRIC EQUIP
- JP S543582 A 19790111 - HITACHI LTD
- JP S5694349 A 19810730 - EASTMAN KODAK CO
- US 3746544 A 19730717 - HEILMANN M
- JP 3716088 B2 20051116
- US 3818247 A 19740618 - CHAMBERS W, et al
- JP S5249829 A 19770421 - KONISHIROKU PHOTO IND
- JP S5015554 A 19750219
- JP S50137726 A 19751101
- JP S56156826 A 19811203 - FUJI PHOTO FILM CO LTD
- JP S5243429 A 19770405 - MITSUBISHI PAPER MILLS LTD
- US 2494903 A 19500117 - SHEIDLER ROBERT G
- US 3128182 A 19640407 - BARD CHARLETON C, et al
- US 4230796 A 19801028 - GUNTHER HERBERT, et al
- US 3253919 A 19660531 - BEAVERS DOROTHY J, et al
- JP 4111431 B2 20080702
- US 2482546 A 19490920 - KASZUBA FRANK J
- US 2596926 A 19520513 - GUNTHER ROBERT C, et al
- US 3582346 A 19710601 - DERSCH FRITZ
- US 3128183 A 19640407 - JONES JEAN E, et al
- US 3532501 A 19701006 - MACKEY E SCUDDER, et al
- JP S57157244 A 19820928 - FUJI PHOTO FILM CO LTD
- JP S58105145 A 19830622 - KONISHIROKU PHOTO IND
- JP S5427424 A 19790301 - FUJI PHOTO FILM CO LTD
- JP S578542 A 19820116 - KONISHIROKU PHOTO IND
- JP S4883820 A 19731108
- EP 0345172 A1 19891206 - EASTMAN KODAK CO [US]
- JP H02153350 A 19900613 - FUJI PHOTO FILM CO LTD
- JP H02153348 A 19900613 - FUJI PHOTO FILM CO LTD
- US 4859574 A 19890822 - GORMEL THOMAS M [US]
- US 4786583 A 19881122 - SCHWARTZ PAUL A [US]
- JP S6218346 A 19870127 - YANMAR DIESEL ENGINE CO
- JP S60191257 A 19850928 - FUJI PHOTO FILM CO LTD, et al
- JP S60191258 A 19850928 - FUJI PHOTO FILM CO LTD, et al
- JP S60191259 A 19850928 - FUJI PHOTO FILM CO LTD, et al
- JP H01319038 A 19891225 - FUJI PHOTO FILM CO LTD
- JP S6311005 A 19880118 - TOSHIBA CORP
- JP S6143748 A 19860303 - FUJI PHOTO FILM CO LTD
- JP S59113438 A 19840630 - KONISHIROKU PHOTO IND
- JP S59113440 A 19840630 - KONISHIROKU PHOTO IND
- JP S6120037 A 19860128 - KONISHIROKU PHOTO IND
- JP S6120038 A 19860128 - KONISHIROKU PHOTO IND
- DE 1121470 B 19620104 - AGFA AG
- GB 923045 A 19630410 - AGFA AG
- JP S57112751 A 19820713 - FUJI PHOTO FILM CO LTD
- JP S62200350 A 19870904 - KONISHIROKU PHOTO IND
- JP S62206541 A 19870911 - KONISHIROKU PHOTO IND
- JP S62206543 A 19870911 - KONISHIROKU PHOTO IND
- JP S5534932 B2 19800910
- JP S5625738 A 19810312 - FUJI PHOTO FILM CO LTD
- JP S6263936 A 19870320 - KONISHIROKU PHOTO IND
- JP S4915495 B1 19740415
- JP S59202464 A 19841116 - KONISHIROKU PHOTO IND
- US 3574628 A 19710413 - JONES EVAN T
- US 3655394 A 19720411 - ILLINGSWORTH BERNARD D
- GB 1413748 A 19751112 - EASTMAN KODAK CO
- US 4434226 A 19840228 - WILGUS HERBERT S [US], et al
- US 4414310 A 19831108 - DAUBENDIEK RICHARD L [US], et al
- US 4433048 A 19840221 - SOLBERG JOHN C [US], et al
- US 4439520 A 19840327 - KOFRON JAMES T [US], et al
- GB 2112157 A 19830713 - EASTMAN KODAK CO
- JP S62215272 A 19870921 - FUJI PHOTO FILM CO LTD
- US 3933501 A 19760120 - CAMERON ROBERT G, et al
- US 4022620 A 19770510 - OKUMURA AKIO, et al
- US 4326024 A 19820420 - KOBAYASHI HIDETOSHI, et al
- US 4401752 A 19830830 - LAU PHILIP T S [US]
- US 4248961 A 19810203 - HAGEN REMON, et al
- JP S5810739 B2 19830226
- GB 1425020 A 19760218 - KONISHIROKU PHOTO IND
- GB 1476760 A 19770616 - AGFA GEVAERT AG
- US 3973968 A 19760810 - FUJIWHARA MITSUTO, et al
- US 4314023 A 19820202 - KOJIMA TAMOTSU, et al
- US 4511649 A 19850416 - OGAWA AKIRA [JP], et al
- EP 0249473 A2 19871216 - EASTMAN KODAK CO [US], et al
- EP 0073636 A1 19830309 - EASTMAN KODAK CO [US]
- US 4310619 A 19820112 - ICHIJIMA SEIJI, et al

- US 4351897 A 19820928 - AOKI KOZO, et al
- US 3061432 A 19621030 - KARL-HEINZ MENZEL, et al
- US 3725064 A 19730403 - FIELD N, et al
- US 4500630 A 19850219 - SATO TADAHISA [JP], et al
- US 4540654 A 19850910 - SATO TADAHISA [JP], et al
- US 4556630 A 19851203 - FURUTACHI NOBUO [JP], et al
- JP S6033552 A 19850220 - FUJI PHOTO FILM CO LTD
- JP S6043659 A 19850308 - FUJI PHOTO FILM CO LTD
- JP S6172238 A 19860414 - KONISHIROKU PHOTO IND
- JP S6035730 A 19850223 - FUJI PHOTO FILM CO LTD
- JP S55118034 A 19800910 - FUJI PHOTO FILM CO LTD
- JP S60185951 A 19850921 - FUJI PHOTO FILM CO LTD
- WO 8804795 A1 19880630 - EASTMAN KODAK CO [US]
- US 4052212 A 19771004 - DEGUCHI HIDETAKA, et al
- US 4146396 A 19790327 - YOKOTA YUKIO, et al
- US 4228233 A 19801014 - YAGIHARA MORIO, et al
- US 4296200 A 19811020 - YAGIHARA MORIO, et al
- US 2369939 A 19450220 - BETTS JOHN R
- US 2801171 A 19570730 - FIERKE SCHEURING S, et al
- US 2772162 A 19561127 - SALMINEN ILMARI F, et al
- US 2895826 A 19590721 - SALMINEN ILMARI F, et al
- US 3772002 A 19731113 - RAMELLO P
- US 3758308 A 19730911 - BEAVERS L, et al
- US 4334011 A 19820608 - AOKI KOZO, et al
- US 4327173 A 19820427 - AOKI KOZO, et al
- DE 3329729 A1 19840223 - KONISHIROKU PHOTO IND [JP]
- EP 0121365 A2 19841010 - FUJI PHOTO FILM CO LTD [JP]
- EP 0249453 A2 19871216 - KONISHIROKU PHOTO IND [JP]
- US 3446622 A 19690527 - MAGAGNOLI REMO, et al
- US 4333999 A 19820608 - LAU PHILIP T S
- US 4753871 A 19880628 - KILMINSTER KENNETH N [US], et al
- US 4451559 A 19840529 - SATO RYOSUKE [JP], et al
- US 4427767 A 19840124 - AOKI KOZO [JP], et al
- US 4690889 A 19870901 - SAITO NAOKI [JP], et al
- US 4254212 A 19810303 - YAGIHARA MORIO, et al
- US 4296199 A 19811020 - YAGIHARA MORIO, et al
- JP S6142658 A 19860301 - FUJI PHOTO FILM CO LTD
- US 4163670 A 19790807 - ARAI ATSUAKI [JP], et al
- JP S5739413 B2 19820821
- US 4004929 A 19770125 - ORVIS ROY L
- US 4138258 A 19790206 - HIROSE TAKESHI, et al
- GB 1146368 A 19690326 - FUJI PHOTO FILM CO LTD
- US 4774181 A 19880927 - RAVINDRAN NAIR N [US], et al
- US 4777120 A 19881011 - LAU PHILIP T S [US]
- US 4366237 A 19821228 - ICHIJIMA SEIJI, et al
- GB 2125570 A 19840307 - FUJI PHOTO FILM CO LTD
- EP 0096570 A1 19831221 - OLYMPUS OPTICAL CO [JP]
- DE 3234533 A1
- US 3451820 A 19690624 - UMBERGER JACOB QUENTIN
- US 4080211 A 19780321 - VAN PAESSCHEN AUGUST JEAN, et al
- US 4367282 A 19830104 - YAGIHARA MORIO [JP], et al
- US 4409320 A 19831011 - YAGIHARA MORIO [JP], et al
- US 4576910 A 19860318 - HIRANO TSUMORU [JP], et al
- GB 2102179 A 19830126 - INTERSTATE ELECTRONICS CORP [US]
- JP S57151944 A 19820920 - FUJI PHOTO FILM CO LTD
- JP S57154234 A 19820924 - KONISHIROKU PHOTO IND
- JP S60184248 A 19850919 - FUJI PHOTO FILM CO LTD
- JP S6337346 A 19880218 - EASTMAN KODAK CO
- US 4248962 A 19810203 - LAU PHILIP T S
- US 4782012 A 19881101 - DESELMs ROY C [US], et al
- GB 2097140 A 19821027 - FUJI PHOTO FILM CO LTD
- GB 2131188 A 19840613 - FUJI PHOTO FILM CO LTD
- JP S59157638 A 19840907 - FUJI PHOTO FILM CO LTD
- JP S59170840 A 19840927 - FUJI PHOTO FILM CO LTD
- US 4130427 A 19781219 - MONBALIU MARCEL J, et al
- US 4283472 A 19810811 - GOMPf THOMAS E, et al
- US 4338393 A 19820706 - BAILEY JOSEPH, et al
- US 4310618 A 19820112 - FERNANDEZ JOSE M, et al
- JP S60185950 A 19850921 - FUJI PHOTO FILM CO LTD
- JP S6224252 A 19870202 - FUJI PHOTO FILM CO LTD
- EP 0173302 A2 19860305 - FUJI PHOTO FILM CO LTD [JP]
- JP S61201247 A 19860905 - EASTMAN KODAK CO
- US 4553477 A 19851119 - WITCZAK STANLEY [US]
- JP S6375747 A 19880406 - EASTMAN KODAK CO
- US 2322027 A 19430615 - JELLEY EDWIN E, et al
- US 4199363 A 19800422 - CHEN TSANG J [US]
- DE 2541274 A1 19760401 - EASTMAN KODAK CO
- DE 2541230 A1 19760526 - EASTMAN KODAK CO
- US 4203716 A 19800520 - CHEN TSANG J [US]
- WO 8800723 A1 19880128 - FUJI PHOTO FILM CO LTD [JP]
- JP H0228637 A 19900130 - FUJI PHOTO FILM CO LTD
- JP H0290151 A 19900329 - FUJI PHOTO FILM CO LTD
- JP H0293641 A 19900404 - FUJI PHOTO FILM CO LTD

- JP H0258041 A 19900227 - FUJI PHOTO FILM CO LTD
- "Chelate Chemistry", vol. 5, 1975, NANKODO, pages: 318
- JAMES: "The Theory of Photographic Process", 1977
- "Chelate Chemistry", vol. 5, 1975, NANKODO, pages: 318
- INORGANIC CHEMISTRY, vol. 27, 1988, pages 474
- J. ANTIBACT. ANTIFUNQ. AGENTS, vol. 1, no. 5, 1983, pages 207 - 223
- PRODUCT LICENSING, vol. 92, December 1971 (1971-12-01), pages 107 - 110
- RESEARCH DISCLOSURE, no. 17643, December 1978 (1978-12-01), pages 22 - 23
- I. EMULSION PREPARATION AND TYPES, no. 18716, November 1979 (1979-11-01), pages 648
- P. GLAFKIDES: "Chimie et Physique Photographique", 1967, PAUL MONTEL
- G.F. DUFFIN: "Photographic Emulsion Chemistry", 1966, FOCAL PRESS
- V.L. ZELIKMAN ET AL.: "Making and Coating Photographic Emulsion", 1964, FOCAL PRESS
- GUTOFF, PHOTOGRAPHIC SCIENCE AND ENGINEERING, vol. 14, 1970, pages 248 - 257

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0458131 A1 19911127; EP 0458131 B1 19970806; DE 69127130 D1 19970911; DE 69127130 T2 19971211; DE 69131509 D1 19990909; DE 69131509 T2 19991125; EP 0720049 A2 19960703; EP 0720049 A3 19970226; EP 0720049 B1 19990804

DOCDB simple family (application)

EP 91107440 A 19910507; DE 69127130 T 19910507; DE 69131509 T 19910507; EP 96103402 A 19910507