

Title (en)
SILVER HALIDE PHOTOGRAPHIC MATERIALS

Publication
EP 0310017 A3 19900117 (EN)

Application
EP 88115963 A 19880928

Priority
JP 24069487 A 19870928

Abstract (en)
[origin: EP0310017A2] A silver halide photographic material has at least one silver halide emulsion layer spectrally sensitized by spectral sensitizing dye(s), in which the silver halide emulsion layer contains in the hydrophilic dispersion medium a hydrophilic polymer having a cationic structure or a dispersion of the hydrophilic polymer and a luminous dye having a relatively weak adsorptive property to silver halide and simultaneously satisfying the conditions 1), 2), and 3), with the proviso that the light-collecting dye and the spectral sensitizing dye may be the same compound. The conditions are: 1) the equilibrium adsorption amount of the dye in an aqueous 5% gelatin solution containing silver bromide the outer surface of which is substantially composed of a {III} plane is not more than 10^{-6} mole/m² per surface area of the silver bromide at a temperature of 40 DEG C, pH of 6.5 +/-0.05, and a dye concentration in solution phase of 10^{-4} mole/liter; 2) the luminous quantum yield of the dye is at least 0.1 at room temperature and at a concentration in dry gelatin of 10^{-4} mole/dm³; and 3) the dye has a luminous band at least partially overlapping the optical absorption band of the adsorptive spectral sensitizing dye on the silver halide. o

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IPC 8 full level
G03C 1/035 (2006.01); **G03C 1/06** (2006.01); **G03C 1/12** (2006.01); **G03C 1/28** (2006.01)

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G03C 1/12 (2013.01); **G03C 1/28** (2013.01)

Citation (search report)
• [Y] FR 2161053 A1 19730706 - FUJI PHOTO FILM CO LTD
• [XPD] EP 0270082 A2 19880608 - FUJI PHOTO FILM CO LTD [JP]
• [Y] PATENT ABSTRACTS OF JAPAN, vol. 3, no. 70 (E-117), 16th June 1979, page 125 E 117; & JP-A-54 48 519 (KONISHIROKU SHASHIN KOGYO K.K.) 17-04-1979

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