

Title (en)
COLORED SPECTROZONAL SILVER-HALIDE PHOTOGRAPHIC MATERIAL

Title (de)
SPEKTRAL SENSIBILISIERTES PHOTOGRAPHISCHES SILBERHALOGENIDFARBMATERIAL

Title (fr)
MATERIAU PHOTOGRAPHIQUE COULEUR A BANDES SPECTRALES A BASE D'HALOGENURES D'ARGENT

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Application
EP 00925769 A 20000327

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Abstract (en)
The invention relates to area of colour photographic materials for registration of a colour image in visible and infra-red area. The material comprises an antihalo backing layer on the one side of a polymer support and at least two light-sensitive layers prepared from silver halide emulsion, including colour forming couplers and sensitizing dyes, auxiliary and protective gelatin layers on the other side of the polymer support, said light-sensitive layers are prepared from silver bromide-iodide emulsion with octahedral or flattened microcrystals with an average size of the grain 0,5-1,5 μ m or from their mixture and one light-sensitive layer contains as infra-red sensitizing dye one or more compounds of the formula <CHEM> where A = H, A<1> = OCH₂CH₂CH₂SO₃<->, O - lower alkyl, A and A<2> together = CH₂C-(CH₃)₂CH₂ <->, A<2> = H, lower alkyl, B = H, 5,5'-di-OCH₃, 6,6'-di-SCH₃, R = lower alkyl, (CH₂)₃SO₃<->, n = 0,1; X = CH₃C₆H₄ SO₃<->, J,-CH₃SO₃<->, the alkaline metal or is absent; the second light-sensitive layer contains as orthochromatic sensitizing dye more than one compounds of the formula <CHEM> where Y = O, N, A = lower alkyl or is absent, A<1> = H, lower alkyl, B = 5,5'-COOC₂H₅, 5,5'-C₆H₅, R, R' = lower alkyl, (CH₂)₃SO₃<->, ÄKÜ <+> = NHC₅H₅ or is absent and /or the third light-sensitive layer contains as panchromatic sensitizing of dye one or more compounds of the formula <CHEM> where A= lower alkyl, B = 4,5-benzo, 4,5-thieno, B<1> = 5-OCH₃, 5-C₆H₅, 4',5'-benzo, 5-Cl, 5-CH₃; R, R<1> = lower alkyl, (CH₂)₃SO₃<->, ÄKÜ <+> = HN (C₂H₅)₃, HN(C₄H₉)₃, C₅H₅-NH, the alkaline metal, 3,3'-diethylthiazolynecarbocyanine, or is absent, and between light-sensitive layers auxiliary gelatin layers including hardener are coated. In addition the light-sensitive layers can contain activators of spectral sensitization. The auxiliary gelatin layers can include derivatives of triazine-1,3,5 as a hardener. It is desirable to add into light-sensitive layers a mixture of silver bromide-iodide photographic emulsions with octahedral microcrystals and with flattened microcrystals in the ratio 1:9-9:1. The material according to the invention has a high resolving power (R = 110-160 mm<-1>), i.e. in 1,6-2,3 times higher, than prototype, and more high light sensitivity.

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