

Title (en)

Radiation-sensitive mixture comprising IR-absorbing, anionic cyanine dyes and recording material prepared therewith

Title (de)

Strahlungsempfindliches Gemisch mit IR-absorbierenden, anionischen Cyaninfarbstoffen und damit hergestelltes Aufzeichnungsmaterial

Title (fr)

Mélange sensible aux rayons actiniques contenant des colorants cyanines anioniques absorbant des rayons infrarouges et matériau pour l'enregistrement préparé avec ce mélange

Publication

**EP 0978375 B1 20041020 (DE)**

Application

**EP 99114553 A 19990724**

Priority

DE 19834745 A 19980801

Abstract (en)

[origin: EP0978375A2] Positive radiation-sensitive mixture containing a water-insoluble organic polymeric binder, which dissolves or at least swells in aqueous alkaline solution, contains, as infrared (IR)-absorbing dye, an anionic penta- or hepta-methin cyanine dye (I). Positive radiation-sensitive mixture containing a water-insoluble organic polymeric binder, which dissolves or at least swells in aqueous alkaline solution, contains, as infrared (IR)-absorbing dye, an anionic penta- or hepta-methin cyanine dye of formula (I), which contains 2-4 sulfonate, carboxylate and/or phosphonate groups but a total of no more than 2 sulfonate groups; n = 2 or 3; R<1-8> = hydrogen (H), R or 6-10 C aryl, optionally mono- or poly substituted by R; R = halogen, sulfonate, carboxylate, phosphonate, hydroxyl (OH), 1-4 carbon (C) alkoxy, nitro, amino, mono- or di-(1-4 C alkyl)-amino; R<9>, R<10> = linear or branched 1-6 C alkyl, 7-16 C aralkyl or 6-10 C aryl, optionally mono- or poly substituted by R; R<11>, R<12> = optionally substituted 1-4 C alkyl or 6-10 C aryl; Z<1>, Z<2> = sulfur (S), di-(1-4 C alkyl)methylene or ethen-1,2-diyl; X<-> = an anion.

IPC 1-7

**B41C 1/10**

IPC 8 full level

**G03F 7/039** (2006.01); **B41C 1/10** (2006.01); **C09B 23/00** (2006.01); **G03F 7/00** (2006.01); **G03F 7/004** (2006.01)

CPC (source: EP US)

**B41C 1/1008** (2013.01 - EP US); **B41C 1/1016** (2013.01 - EP US); **B41C 2201/02** (2013.01 - EP US); **B41C 2201/14** (2013.01 - EP US); **B41C 2210/02** (2013.01 - EP US); **B41C 2210/06** (2013.01 - EP US); **B41C 2210/20** (2013.01 - EP US); **B41C 2210/22** (2013.01 - EP US); **B41C 2210/24** (2013.01 - EP US); **B41C 2210/262** (2013.01 - EP US)

Cited by

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DOCDB simple family (application)

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