

Title (en)
ORGANIC DYE-IN-POLYMER (DIP) MEDIUM FOR WRITE-ONCE-READ-MANY (WORM) OPTICAL DISCS WITH FLUORESCENT READING

Title (de)
ORGANISCHES FARBSTOFF-IN -POLYMER (DIP)-MEDIUM FÜR EINMAL BESCHREIBBARE, MEHRMALS LESBARE OPTISCHE PLATTEN ZUM FLUORESZENZLESEN

Title (fr)
MILIEU COLORANT-DANS-POLYMERES (DIP) ORGANIQUE POUR DISQUES OPTIQUES INSCRIPTIBLES UNE SEULE FOIS (WORM) ET A LECTURE FLUORESCENTE

Publication
EP 1103046 A2 20010530 (EN)

Application
EP 99929620 A 19990513

Priority
• IB 9901266 W 19990513
• US 8533498 P 19980513

Abstract (en)
[origin: WO9959142A2] High sensitive organic dye-in-polymer (DIP) medium for write-once-read-many (WORM) optical discs with fluorescent reading. The medium consists of a fluorescent color means, capable of absorbing writing radiation produced by a laser, a compound capable of generating free radicals upon influence of heat produced by the writing radiation and a polymer capable of producing a translucent film enabling high quantum yield of the fluorescence induced in the color means. The color means can be selected from xanthene dyes of the eosine and rhodamine groups, acridine, oxazine, azine, peylene, violanthrone, cyanine, phthalocyanine, indigoide colors and porphyrins. The free radicals generating compound can be chosen from the group of compounds comprising azo and diazo compounds or peroxy compounds. The film producing polymer can be selected from the group of compounds comprising cellulose ethers, vinyl resins or acrylic resins.

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G11B 3/00

IPC 8 full level
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CPC (source: EP)
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WO 9959142 A2 19991118; **WO 9959142 A3 20000629**; **WO 9959142 A8 20000727**; AU 4639899 A 19991129; EP 1103046 A2 20010530; EP 1103046 A4 20030108; JP 2002515353 A 20020528

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