

Title (en)

MULTI-LAYERED PHOTOCHROMIC OPTICAL DATA DISK

Title (de)

MEHRSCICHTIGE PHOTOCHROMISCHE OPTISCHE DATENPLATTE

Title (fr)

DISQUE OPTIQUE PHOTOCHROME MULTICOUCHE DE MEMORISATION DE DONNEES

Publication

EP 1090391 A1 20010411 (EN)

Application

EP 98960155 A 19981102

Priority

- US 9823194 W 19981102
- US 6379797 P 19971031

Abstract (en)

[origin: WO9923650A1] A 2.5-dimensional optical storage medium (101) is formed from multiple layers of photochromic molecules embedded in a polymer matrix separated by transparent separating layers (107). The medium (101) is moved into position in three dimensions for two-photon single beam information writing. The information thus written can be read bit-by-bit or page-by-page. In the latter case, an area is illuminated, and the fluorescence is detected by a CCD camera.

IPC 1-7

G11B 7/24; **G11B 3/70**; **G11C 11/00**; **B32B 3/00**

IPC 8 full level

B32B 3/00 (2006.01); **G11B 7/004** (2006.01); **G11B 7/0045** (2006.01); **G11B 7/005** (2006.01); **G11B 7/0055** (2006.01); **G11B 7/244** (2006.01); **G11B 7/257** (2013.01); **G11B 7/00** (2006.01); **G11B 7/006** (2006.01); **G11B 7/14** (2006.01)

CPC (source: EP)

B82Y 10/00 (2013.01); **G11B 7/00455** (2013.01); **G11B 7/0052** (2013.01); **G11B 7/00552** (2013.01); **G11B 7/244** (2013.01); **G11B 7/245** (2013.01); **G11B 7/257** (2013.01); **G11B 7/006** (2013.01); **G11B 7/14** (2013.01); **G11B 2007/0013** (2013.01)

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 9923650 A1 19990514; **WO 9923650 A9 19991202**; AU 1582199 A 19990524; EP 1090391 A1 20010411; EP 1090391 A4 20010411; JP 2001522119 A 20011113

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