

Title (en)

FLUORESCENT-LIQUID CRYSTAL OPTICAL MEMORY AND RECORDING/READING SYSTEM THEREOF

Title (de)

OPTISCHER FLUORESCENZ-FLÜSSIGKRISTALLSPEICHER UND AUFZEICHNUNGS-/LESESYSTEM DAFÜR

Title (fr)

MEMOIRE OPTIQUE A LIQUIDE FLUORESCENT ET DISPOSITIF D'ENREGISTREMENT/DE LECTURE ASSOCIE

Publication

**EP 1425739 A4 20070502 (EN)**

Application

**EP 02742280 A 20020625**

Priority

- US 0219978 W 20020625
- US 30005601 P 20010625

Abstract (en)

[origin: WO03001516A1] A multilayer fluorescent information carrier (300) having a plurality of data layers (302), each of the data layers (302) comprises a thin controllable liquid crystal cell composed of two electrodes (303) and at least one orientation film (304 or 305) and information is recorded thereon in the form of orientation capability which is spatially modulated over its surface with respect to a liquid crystal composition and when playing back, it allows for partial or complete elimination of the fluorescent cross-talk from the adjacent data films.

IPC 1-7

**G11B 7/00**; **G11B 7/22**; **G11B 7/24**; **C09K 19/00**; **C09K 19/56**; **G02F 1/1333**

IPC 8 full level

**C09K 19/00** (2006.01); **C09K 19/56** (2006.01); **G02F 1/1333** (2006.01); **G11B 7/00** (2006.01); **G11B 7/0045** (2006.01); **G11B 7/007** (2006.01); **G11B 7/22** (2006.01); **G11B 7/24038** (2013.01); **G11B 7/246** (2013.01); **G11B 7/25** (2006.01); **G11B 7/26** (2006.01); **G11B 7/247** (2006.01); **G11B 7/2472** (2013.01); **G11B 7/249** (2013.01)

CPC (source: EP)

**G11B 7/0045** (2013.01); **G11B 7/005** (2013.01); **G11B 7/24038** (2013.01); **G11B 7/246** (2013.01); **G11B 7/25** (2013.01); **G11B 7/2472** (2013.01); **G11B 7/248** (2013.01); **G11B 7/249** (2013.01); **G11B 2007/24612** (2013.01); **G11B 2007/24624** (2013.01)

Citation (search report)

- [A] JP S5979443 A 19840508 - NIPPON DENKI HOME ELECTRONICS
- [A] EP 0461619 A2 19911218 - CANON KK [JP]
- [A] EP 0141512 B1 19890712
- See references of WO 03001516A1

Cited by

US9275671B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 03001516 A1 20030103**; CN 1620688 A 20050525; EP 1425739 A1 20040609; EP 1425739 A4 20070502; JP 2004531849 A 20041014

DOCDB simple family (application)

**US 0219978 W 20020625**; CN 02816165 A 20020625; EP 02742280 A 20020625; JP 2003507814 A 20020625