

Title (en)
PHOTOSENSITIVE MATERIAL

Title (de)
LICHTEMPFLINDLICHES MATERIAL

Title (fr)
MATIERE PHOTOSENSIBLE

Publication
EP 1803123 A1 20070704 (EN)

Application
EP 05798561 A 20051016

Priority
• IL 2005001089 W 20051016
• US 61816104 P 20041014

Abstract (en)
[origin: WO2006040772A1] Photosensitive material for holographic recording and storage is disclosed. The material comprises a hosting matrix with distributed hosted discrete particles. The particles comprise a core portion and a shell portion surrounding the core portion, wherein the shell portion is capable to undergo a phase transformation from an amorphous or a metastable crystalline state to a stable crystalline state in response to laser beam irradiation. The phase transformation is accompanied by change of refractive index.

IPC 8 full level
G11B 7/251 (2006.01); **G11B 7/24** (2006.01); **G11B 7/24044** (2013.01); **G11B 7/243** (2006.01); **G11B 7/253** (2006.01); **G11B 7/2531** (2013.01)

CPC (source: EP KR)
B82Y 10/00 (2013.01 - EP); **B82Y 20/00** (2013.01 - EP); **B82Y 30/00** (2013.01 - EP); **G11B 7/24044** (2013.01 - EP);
G11B 7/243 (2013.01 - EP KR); **G11B 7/251** (2013.01 - EP KR); **G11B 7/257** (2013.01 - KR); **G11B 7/00454** (2013.01 - EP);
G11B 7/0065 (2013.01 - EP); **G11B 7/245** (2013.01 - EP); **G11B 7/2531** (2013.01 - EP); **G11B 2007/24312** (2013.01 - EP);
G11B 2007/24314 (2013.01 - EP); **G11B 2007/24316** (2013.01 - EP)

Citation (search report)
See references of WO 2006040772A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006040772 A1 20060420; CA 2582440 A1 20060420; CN 101088124 A 20071212; EP 1803123 A1 20070704; JP 2008517319 A 20080522;
KR 20070097416 A 20071004

DOCDB simple family (application)
IL 2005001089 W 20051016; CA 2582440 A 20051016; CN 200580035160 A 20051016; EP 05798561 A 20051016; JP 2007536349 A 20051016;
KR 20077010878 A 20070514