

Title (en)  
INFORMATION STORAGE MEDIUM AND METHOD AND APPARATUS OF RECORDING AND/OR REPRODUCING DATA ON AND/OR FROM THE SAME

Title (de)  
INFORMATIONSSPEICHERMEDIUM UND VERFAHREN UND VORRICHTUNG ZUM AUFZEICHNEN UND/ODER WIEDERGEBEN VON DATEN AUF BZW. VON DIESEM

Title (fr)  
SUPPORT DE MISE EN MEMOIRE DE L'INFORMATION ET PROCEDE ET APPAREIL D'ENREGISTREMENT ET/OU DE REPRODUCTION DE DONNEES SUR ET/OU A PARTIR DUDIT SUPPORT

Publication  
**EP 1642270 A4 20090401 (EN)**

Application  
**EP 04734166 A 20040520**

Priority  

- KR 2004001205 W 20040520
- KR 20030032092 A 20030520
- US 48515703 P 20030708

Abstract (en)  
[origin: WO2004105000A1] An information storage medium and a method of recording data on and/or reproducing data from the information storage medium, includes an information storage medium having at least one information storage layer. Data is recorded in the form of protruding or indented pits in the entire or partial area of the information storage medium, and information regarding the protruding or indented pits is recorded. Smooth tracking can be achieved using the information regarding the protruding or indented pits, that is, push-pull polarity information.

IPC 8 full level  
**G11B 7/007** (2006.01); **G11B 7/013** (2006.01); **G11B 7/24079** (2013.01); **G11B 7/24082** (2013.01); **G11B 7/24085** (2013.01); **G11B 7/24097** (2013.01); **G11B 7/0045** (2006.01); **G11B 7/005** (2006.01); **G11B 7/09** (2006.01)

CPC (source: EP)  
**G11B 7/00736** (2013.01); **G11B 7/24085** (2013.01); **G11B 7/00454** (2013.01); **G11B 7/0053** (2013.01); **G11B 7/00718** (2013.01); **G11B 7/0912** (2013.01)

Citation (search report)  

- [E] WO 2004042711 A1 20040521 - SAMSUNG ELECTRONICS CO LTD [KR]
- [PX] US 2004001414 A1 20040101 - KADOWAKI SHIN-ICHI [JP], et al
- [PX] US 2003202436 A1 20031030 - TOMITA YOSHIMI [JP], et al
- [A] EP 1067523 A2 20010110 - SHARP KK [JP] & US 2004085877 A1 20040506 - LEE KYUNG-GEUN [KR], et al
- See references of WO 2004105000A1

Citation (examination)  
EP 1501085 A1 20050126 - PIONEER CORP [JP]

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

DOCDB simple family (publication)  
**WO 2004105000 A1 20041202**; CA 2515489 A1 20041202; CA 2515489 C 20140708; EP 1642270 A1 20060405; EP 1642270 A4 20090401; HK 1087524 A1 20061013; HK 1116577 A1 20081224; HK 1116578 A1 20081224; HK 1122393 A1 20090515; HK 1122394 A1 20090515; JP 2007502510 A 20070208; JP 4717820 B2 20110706; MX PA05010451 A 20051104; MY 165340 A 20180321; RU 2005130398 A 20060127; RU 2008118732 A 20091120; RU 2310242 C2 20071110; RU 2467407 C2 20121120; SG 155064 A1 20090930

DOCDB simple family (application)  
**KR 2004001205 W 20040520**; CA 2515489 A 20040520; EP 04734166 A 20040520; HK 06107602 A 20060706; HK 08102852 A 20060706; HK 08102853 A 20060706; HK 09102851 A 20060706; HK 09102852 A 20060706; JP 2006532054 A 20040520; MX PA05010451 A 20040520; MY PI20080219 A 20080205; RU 2005130398 A 20040520; RU 2008118732 A 20080512; SG 2007179088 A 20040520