

(19) World Intellectual Property Organization
International Bureau



PCT



(43) International Publication Date
27 April 2006 (27.04.2006)

(10) International Publication Number
WO 2006/043211 A1

(51) International Patent Classification:

G11B 7/006 (2006.01) **G11B 7/26** (2006.01)
G11B 7/125 (2006.01)

(21) International Application Number:

PCT/TB2005/053351

(22) International Filing Date: 12 October 2005 (12.10.2005)

(25) Filing Language: English

(26) **Publication Language:** English

(30) Priority Data:
04105150.9 19 October 2004 (19.10.2004) EP

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors: and

(75) **Inventors/Applicants (for US only): MEINDERS, Erwin, R.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **LOCH, Rolf, A.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agents: UITTENBOGAARD, Frank et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY,
MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

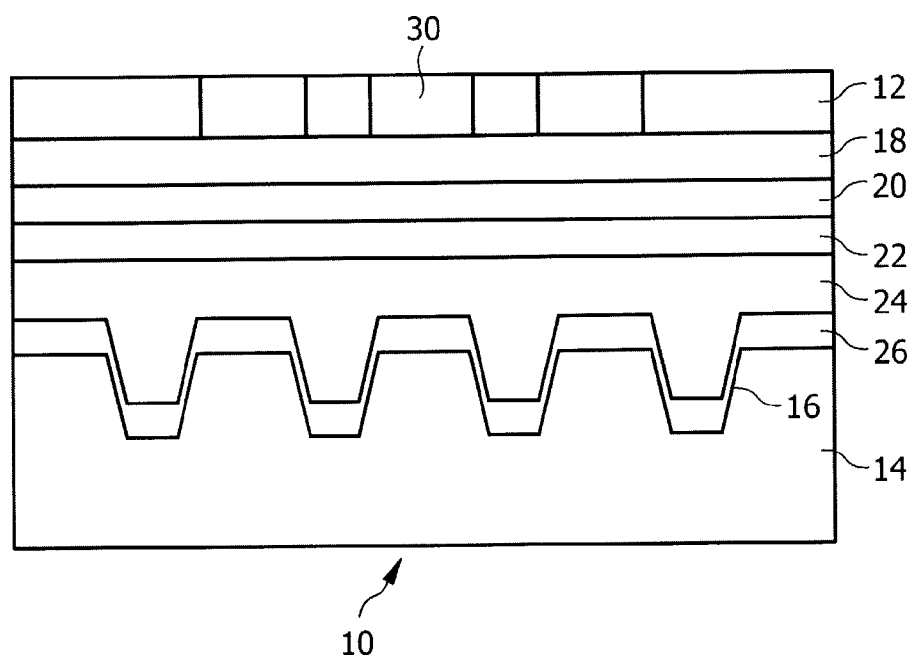
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF WRITING DATA ON A MASTER SUBSTRATE FOR OPTICAL RECORDING



(S7) Abstract: The present invention relates to a method of writing data on a master substrate (10) for optical recording, the master substrate comprising a recording layer (12) and a substrate layer (14), and the recording layer comprising a phase-change material the phase of which can be transferred from crystalline to amorphous by projecting light on the recording 5 layer, the method comprising the steps of: writing a first amorphous mark (32) from a plurality of amorphous marks on the master substrate by at least one write pulse, and providing a cooling gap before the next amorphous mark (32) will be written.