

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



162162

(43) International publication date
11 October 2001 (11.10.2001)

PCT

(10) International publication number
WO 01/75873 A1

(51) International patent classification⁷: G11B 7/24
(21) International application number: PCT/EP01/03334
(22) International filing date: 23 March 2001 (23.03.2001)
(25) Language of filing: German
(26) Language of publication: German
(30) Data relating to the priority:
100 16 669.5 4 April 2000 (04.04.2000) DE
(71) Applicant (for all designated States except US): BAYER
AKTIENGESELLSCHAFT [DE/DE]; 51368 Leverkusen
(DE).

(81) Designated states (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated states (regional): ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and
(75) Inventors/Applicants (US only): BERNETH, Horst [DE/DE]; Erfurter Str. 1, 51373 Leverkusen (DE). BRUDER, Friedrich-Karl [DE/DE]; Bodelschwinghstr. 20, 47800 Krefeld (DE). HASSEN RÜCK, Karin [DE/DE]; Schlehenweg 28, 40468 Düsseldorf (DE).

Published:

- With the International Search Report.
- Before expiry of the period provided for amending the claims, will be republished if such amendments are received.

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

(74) Joint Representative: BAYER AKTIENGESELLSCHAFT;
51368 Leverkusen (DE).

As printed



G00002

(54) Title: USE OF LIGHT-ABSORBING COMPOUNDS IN THE INFORMATION LAYER OF OPTICAL DATA CARRIERS, AND OPTICAL DATA CARRIERS

(54) Bezeichnung: VERWENDUNG VON LICHTABSORBIERENDEN VERBINDUNGEN IN DER INFORMATIONSSCHICHT VON OPTISCHEN DATENTRÄGERN SOWIE OPTISCHE DATENTRÄGER

(57) Abstract: The invention relates to a write-once optical data carrier in which organic and/or inorganic light-absorbing compounds are used as the information layer, especially for high-density optical data carriers which function with a blue laser in the wavelength range of 360-460 nm. The invention also relates to the application of the above-mentioned light-absorbing compound to a suitable substrate (especially polycarbonate), e.g. by spin coating.

(57) Zusammenfassung: Die vorliegende Erfindung bezieht sich auf einen einmal beschreibbaren optischen Datenträger unter Verwendung von organischen und/oder anorganischen lichtabsorbierenden Verbindungen als Informationsschicht insbesondere für hochdichte optische Datenträger, die mit einem blauen Laser im Bereich von 360 - 460 nm Wellenlänge arbeiten, sowie die Applikation der oben genannten lichtabsorbierenden Verbindung auf ein geeignetes Substrat (insbesondere Polycarbonat) z.B. durch Spin-Coating.

WO 01/75873 A1