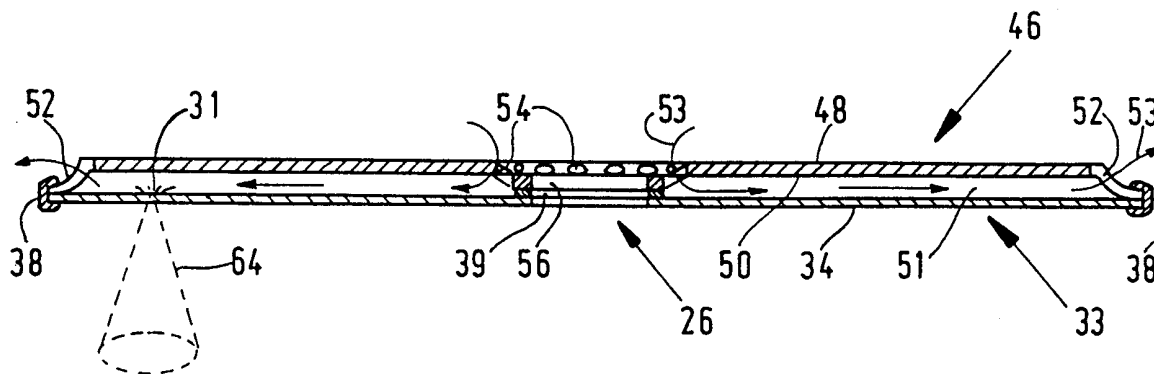




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : G11B 7/26, 7/24, 23/03, 33/14</p>	<p>A3</p>	<p>(11) International Publication Number: WO 99/14748 (43) International Publication Date: 25 March 1999 (25.03.99)</p>
<p>(21) International Application Number: PCT/NL98/00523 (22) International Filing Date: 10 September 1998 (10.09.98) (30) Priority Data: 08/928,063 12 September 1997 (12.09.97) US (71) Applicant (for all designated States except US): ODME INTERNATIONAL B.V. [NL/NL]; De Run 4315, NL-5503 LP Veldhoven (NL). (72) Inventor; and (75) Inventor/Applicant (for US only): CUBIT, Robert, Leslie [US/US]; 14332 Locust Street, Westminster, CA 92683 (US). (74) Agent: VAN KAN, J., J., H.; Algemeen Octrooibureau, World Trade Center, Pastoor Petersstraat 160, NL-5612 LV Eindhoven (NL).</p>	<p>(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 6 May 1999 (06.05.99)</p>	

(54) Title: SEALED ENCLOSURE FOR SHIPPING, STORING AND RECORDING AN OPTICAL DISC MASTER



(57) Abstract

A recording cover (46) that provides a clean air distribution and micro cleanroom environment for recording of optical disc masters, while concomitantly serving the purpose of protecting the sensitive optically active lamina (31) during transportation and storage of the optical disc substrate. A rigid, opaque, and reusable recording cover concentrically and fixedly, yet removably, fits over the optically active lamina of a disc substrate and creates an enclosed contaminate free space (51) therebetween. The recording cover has a plurality of inwardly located air entrance cavities (54) and a plurality of circumferentially located air exit holes (52), whereby clean and dry air (53) is introduced into the air entrance cavities. The clean, dry air flows through the enclosed space and out of the exit holes under positive air pressure and centrifugal force during the recording phase. The air pressure flow, in conjunction with centrifugal force, removes both ablative and also spurious environment debris particles from the enclosed space, thereby preventing occlusion of recorded data pits on the optically active lamina by debris particles.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 98/00523

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 G11B7/26 G11B7/24 G11B23/03 G11B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 495 281 A (DEL MAR AVIONICS) 22 July 1992 see the whole document ---	1-24
A	US 4 583 213 A (BRACKEN ALLEN T ET AL) 15 April 1986 cited in the application see the whole document ---	1-7
A	US 4 539 573 A (MARCHANT ALAN B ET AL) 3 September 1985 cited in the application see the whole document ---	1-7
A	US 4 556 968 A (PELKEY KATHLEEN ET AL) 3 December 1985 see the whole document ---	8-24
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

24 February 1999

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 98/00523

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 10824 A (SYMONS RICHARD DANIEL ;MATTHEWS ROBERT JAMES (GB); MANCHIP TOBY AL) 11 April 1996 see abstract see page 6, line 4 - line 27; figure 5 ---	8,11,16, 21
A	WO 93 13526 A (OPTEX CORP) 8 July 1993 see abstract; figure 1 -----	8,9,11, 15,16, 20,21,23

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NL 98/00523

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
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Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7

Portable micro-cleanroom environment with an evenly distributed forced-air system used for recording an optical disc master.

2. Claims: 8-24

Apparatus for cleanly shipping an optical disc comprising a shipping cover which seals against the disc.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/NL 98/00523

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