

(19) World Intellectual Property Organization
International Bureau



1 00000 000000 000000



162162

(43) International Publication Date
22 August 2002 (22.08.2002)

PCT

(10) International Publication Number
WO 02/065474 A3

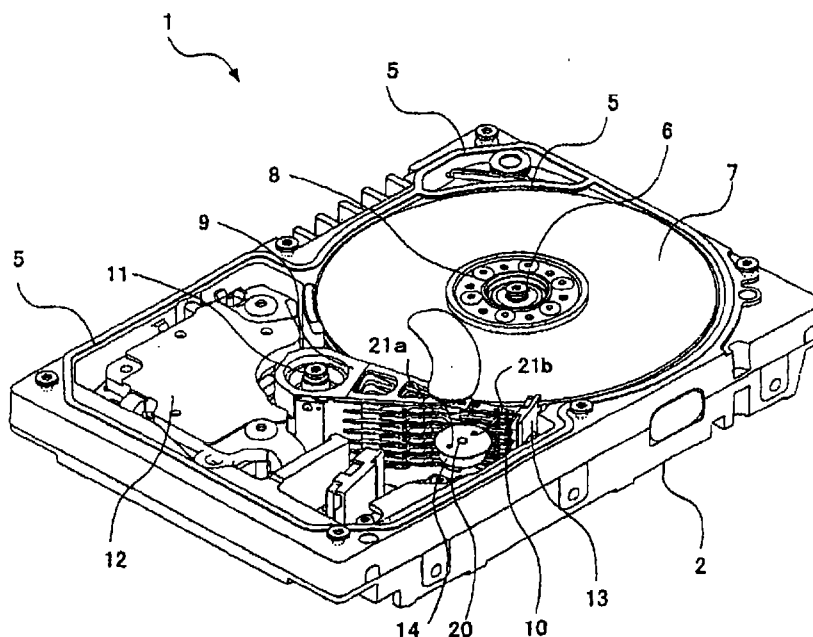
- (51) International Patent Classification⁷: **G11B 33/14**, 25/04
- (21) International Application Number: PCT/GB02/00630
- (22) International Filing Date: 13 February 2002 (13.02.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2001-036210 13 February 2001 (13.02.2001) JP
- (71) Applicant (for all designated States except US): **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, NY 10504 (US).
- (71) Applicant (for MG only): **IBM UNITED KINGDOM LIMITED** [GB/GB]; P.O. Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **FUJIWARA, Takayuki** [JP/JP]; 5-11-25-301 Minamirinkan, Yamato-shi, Kanagawa 242-0006 (JP). **KITAHORI, Hiroki** [JP/JP]; 251-0861 Ohba, Fujisawa-shi, Kanagawa 251-0861 (JP). **MATSUDA, Hiroshi** [JP/JP]; 2-3-10-205 Sagamigaoka, Zama-shi, Kanagawa (JP).
- (74) Agent: **BURT, Roger, James**; IBM United Kingdom Limited, Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN (GB).
- (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, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: AN IMPROVED VENTILATION PATH FOR A DISK DRIVE APPARATUS



G00002



(57) Abstract: To easily confirm whether a breather filter is attached even after attaching a top cover on a base. Filter confirmation holes (21a) and (21b) besides a gas port (20) for circulating a gas between a breather filter (14) and the outside are formed in an area where the breather filter (14) is attached. At the time of a leak test to HDD 1, for example, a pressurized gas is supplied from a fresh air hole (20). If the breather filter (14) is not attached, the gas will leak from the filter confirmation holes (21a) and (21b). Therefore, it is detectable by measuring the pressure at the time of a leak test that the breather filter 14 is not attached. In addition, Figure (2) is a perspective view without a top cover.

WO 02/065474 A3

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, GQ, GW, ML, MR,
NE, SN, TD, TG).

(88) Date of publication of the international search report:

5 December 2002

Published:

— with international search report

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.