

2003019924

10 APR 2003

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

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
13 March 2003 (13.03.2003)

PCT

(10) International Publication Number
WO 03/021598 A1(51) International Patent Classification⁷: G11B 33/12

(21) International Application Number: PCT/GB02/03880

(22) International Filing Date: 22 August 2002 (22.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/315,350 29 August 2001 (29.08.2001) US(71) Applicant (for all designated States except US): XYRA-
TEX TECHNOLOGY LIMITED, [GB/GB]; Langstone
Road, Havant, Hampshire, PO9 1SA (GB).

(72) Inventors; and

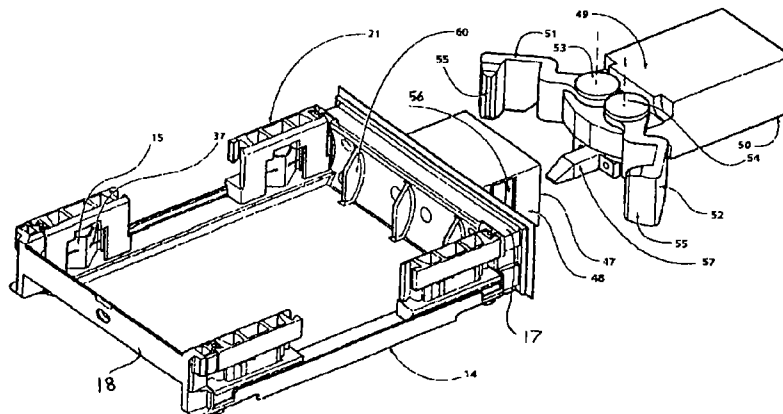
(75) Inventors/Applicants (for US only): ORRISS, David,
John [GB/GB]; 9 Salet Way, Cowplain, Waterlooville,
Hampshire PO7 8QS (GB). ATKINS, Andrew, William
[GB/GB]; 2 Grenader Close, Locks heath, Southampton
SO31 6UE (GB).(74) Agent: LAIGHT, Martin, Harvey; W.H. Beck, Greener
& Co., 7 Stone Buildings, Lincoln's Inn, London WC2A
2SZ (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, JP, 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,
VC, VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

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

(54) Title: MOUNTING FOR DISK DRIVE UNIT AND METHOD OF HANDLING



(57) Abstract: A mounting for a disk drive unit comprises a carrier (14) for carrying a disk drive unit (12) during required movement of the disk drive unit. The carrier (14) defines a space into which the disk drive unit (12) can be inserted, and the carrier is adapted to be inserted with the disk drive unit into a receiving frame (8) for operational use. At least two resilient devices (15) are mounted on the carrier (14) for securing the disk drive unit (12) in the receiving frame (8) when the carrier is inserted into the frame, at least one resilient device (15) being mounted on each side of the carrier (14). Each resilient device (15) is movably mounted on the carrier (14) to allow movement of the device as a whole relative to the carrier and the resilient device is arranged to secure the disk drive unit (12) in the receiving frame (8) by acting between the disk drive unit (12) and the receiving frame (8). A method of handling the disk drive unit comprises placing the disk drive unit (12) into the carrier (14) engaging a robotic device (49) with a coupling structure (47) projecting from the front of the carrier (14). The method then includes lifting the carrier (14) by the robotic device (49) and inserting the carrier into a receiving frame (8) by a substantially horizontal movement.

WO 03/021598 A1



162162



ACTION