9906318-2
IPOS

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G11B 5/60

A1

(11) International Publication Number: WO 99/00792

(43) International Publication Date: 7 January 1999 (07.01.99)

(21) International Application Number: PCT/US98/03722

(22) International Filing Date: 25 February 1998 (25.02.98)

(30) Priority Data:

60/051,043	27 June 1997 (27.06.97)	US
60/051,044	27 June 1997 (27.06.97)	US
60/054,313	31 July 1997 (31.07.97)	US
60/055,899	15 August 1997 (15.08.97)	US
60/064,949	7 November 1997 (07.11.97)	US
60/064,789	10 November 1997 (10.11.97)	US
60/064,791	10 November 1997 (10.11.97)	US
60/064,785	10 November 1997 (10.11.97)	US
60/067,590	5 December 1997 (05.12.97)	US
60/074,968	17 February 1998 (17.02.98)	US

(71) Applicant *(for all designated States except US)*: SEAGATE TECHNOLOGY, INC. [US/US]; 920 Disc Drive, Scotts Valley, CA 95066 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: GUI, Jing [CN/US]; 45439 Sodaville Drive, Fremont, CA 94539 (US). MARCHON, Bruno, J. [FR/US]; 1810 Hamilton Avenue, Palo Alto, CA 94303 (US). BURBANK, Daniel, P. [US/US]; 3940 – 41st Avenue South, Minneapolis, MN 55406 (US). HOEHN, Joel, W. [US/US]; 9322 – 83rd Street South, Cottage Grove, MN 55016 (US). BERKOWITZ, Jeffrey, K. [US/US]; 734 Debbie Lane, Carver, MN 55315 (US). SUNDRAM, Ramesh [IN/US]; 47681 Zunic Drive, Fremont, CA 94539 (US). BRAND, John, L. [US/US]; 700 Oak Ridge Court East, Burnsville, MN 55306 (US). NAGARAJAN, Subrahmanyan [IN/US]; 15705 Aldine Circle, Burnsville, MN 55306 (US). MEYER, Dallas, W. [US/US]; 13308 Oliver Avenue South, Burnsville, MN 55337 (US). SEGAR, Peter, R. [US/US]; 13840 Sunset Lake Drive, Burnsville, MN 55337 (US). POLYCARPOU, Andreas, A. [CY/US]; 6488 Kingfisher Lane, Eden Prairie, MN 55346 (US). BOUTAGHOU, Zine–Eddine [US/US]; 307 Lily Pond Lane, Vadnais Heights, MN 55127 (US). EGBERT, Dale, E. [US/US]; 3967 Hillcrest Road, Deephaven, MN 55391 (US). WOBBE, David, G. [US/US]; 1348 Whitney Street, Shakopee, MN 55379 (US). HIPWELL, Mary, Cynthia [US/US]; 4214 Queen Avenue South #1, Minneapolis, MN 55410 (US). TANG, Huan [CN/US]; 10340 Plum Tree Lane, Cupertino, CA 95014 (US).

(74) Agents: CHAMPLIN, Judson, K.; Westman, Champlin & Kelly, P.A., Suite 1600 – International Centre, 900 Second Avenue South, Minneapolis, MN 55402–3319 (US) et al.

(81) Designated States: GB, JP, KR, SG, US.

Published
With international search report.
With amended claims.

(54) Title: SLIDER FOR DISC STORAGE SYSTEM

(57) Abstract

A disc storage system (10) includes a rotating disc (12) and a transducer. The transducer is carried on a slider (36) which is supported by an armature (32). The armature (32) is used to move the slider radially across the disc (12) surface whereby information may be read from or written to the disc (12) surface with the transducer. The slider (36) includes an air bearing surface which faces the disc (12) surface. As the disc (12) rotates, the air bearing surface (36) causes the slider to "fly" over the disc (12) surface. Pads (118) are provided on the air bearing surface to improve operational characteristics of the system (10).

