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(71) Applicant: SEAGATE TECHNOLOGY, INC. [US/US]; 920 Disc Drive, Scotts Valley, CA 95066 (US).

(72) Inventors: VOLZ, LeRoy, A.; 11922 Doral Avenue, Northridge, CA 91326 (US). MANZ, Stephen, R.; 8600 International Avenue #108, Canoga Park, CA 91304 (US). HURST, Raymond, E.; 2039 Estrella Court, Palmdale, CA 93550 (US).

(74) Agents: HOFMANN, Rudolph, P., Jr.; Westman, Champlin & Kelly, P.A., International Centre, Suite 1600, 900 Second Avenue South, Minneapolis, MN 55402-3319 (US) et al.

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(54) Title: DISC DRIVE SYSTEM USING MULTIPLE PAIRS OF EMBEDDED SERVO BURSTS

(57) Abstract

A method and apparatus determining a data transducer head (26) position relative to a selected track (18) of plural concentric tracks within a magnetic disk drive (10). At least one prerecorded servo sector (20) within a data track includes four time staggered servo bursts (50). The first pair (70, 72) and second pair (74, 76) of servo bursts are radially offset from each other by generally a burst width such that an edge from each of the pair is substantially co-linear in forming a track null. The first pair (70, 72) is radially offset from the second pair (74, 76) by one-half of the burst width. The first pair (70, 72) is read to determine a first relative amplitude (100), and the second pair (74, 76) is read to determine a second relative amplitude (102). The radially offset, time staggered prerecorded servo bursts (50) can be of varying width and number to create the plurality of track nulls within a data track (18) about which the head (26) is positioned.

