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(54) Title: SEEK RECOVERY USING DIFFERENT SERVO PULSE DATA QUALIFICATION MODES

(57) Abstract

Apparatus and method for compensating for servo data distortion during a seek operation (250) in a disc drive (100). A seek is initiated (252) to move a head (118) from an initial track to a destination track on a disc (108). Servo data (154) from intermediary tracks are decoded by generating nominally redundant positive and negative digital pulse streams (180, 182) from positive and negative digital peaks (172, 174) in a servo data readback signal (170), and then combining the positive and negative digital pulse streams using a first Boolean logic operator (196) to qualify pulses in a first output digital pulse stream (184) indicative of head position. When distortion arises in the servo data readback signal that prevents correct detection of head position (258), the head is brought to rest (264), a second Boolean logic operator (198) is selected (266), and the seek is resumed (270) using the second Boolean operator. A table (202) stores the most recently selected Boolean operator for each head.

