SYSTEM FOR COMPENSATING FOR HARD SECTOR NOISE DEGRADATION OF TRACKING ERROR SIGNALS IN AN OPTICAL DATA STORAGE SYSTEM

ABSTRACT

The invention provides a system for compensating for hard sector noise degradation of tracking error signals in an optical data storage system (10). The system includes a hard sector detection circuit (140) which generates a first output signal in response to receiving a first input signal representing detection of a hard sector on a magneto-optical disk (30); a logic circuit (142) which generates a second output signal in response to receiving the first output signal and a second input signal; and a tracking error signal reconstruction circuit (144) which generates an approximated tracking error signal in response to receiving a tracking error signal and the second output signal. The invention may be embodied as hardwired circuitry or as a combination of hardware and software embodied in a computer readable medium and implemented in a digital computer.

Fig. 1

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