-4 DEC 2002

162162

OPTICAL SEEKING APPARATUS WITH TRACK CROSSING SIGNAL GENERATION USING A CORRECTED TRACKING ERROR SIGNAL HAVING A CONSTANT AMPLITUDE DURING PERIODS OF DATA

ABSTRACT

An apparatus for moving an optical head from an initial track to a target track on a storage medium and generating a track crossing signal. The apparatus includes a sensor for measuring the reflectivity level from a storage medium, a preamplifier for generating a data signal, a tracking error signal generator responsive to the reflectivity level for deriving a tracking error signal, a track/hold selector to direct the tracking error signal generator to generate a corrected tracking error signal of a constant amplitude for a predetermined period of time based on the data signal, and a track crossing signal generator based on the corrected tracking error signal for deriving a track crossing signal indicating the crossing of an information track by the optical head.

Figure 4

G00002