

COMPENSATING THE EFFECTS OF NON-SYNCHRONOUS WRITING OF ERASABLE SERVO MARKS

ABSTRACT OF THE DISCLOSURE

A method is provided, which includes reading data from a data storage medium.

- 5 Reading data from the medium causes the data to be erased. The method further includes determining a desired position to rewrite the data by computing a position error signal based on the data signal and compensating the position error signal for non-zero bias. The data is then rewritten non-synchronously. An apparatus is also provided, including a data storage medium with a data
- 10 communication transducer configured to receive data from the medium. Data is erased after it is read. The data communication transducer is configured to rewrite the read data back onto the data storage medium in a non-synchronously. A non-zero bias compensator is provided to compensate data received by the data communication transducer to determine a desired position to rewrite the
- 15 previously read data back onto the medium.

FIGURE 2