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(54) **USE OF GRATING STRUCTURES TO CONTROL ASYMMETRY IN A MAGNETIC SENSOR**

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(52) **U.S. Cl.** **360/110**; 360/313; 360/122; 360/125.01

(58) **Field of Classification Search** 360/327, 360/110, 313, 324, 324.1, 122, 125.01
See application file for complete search history.

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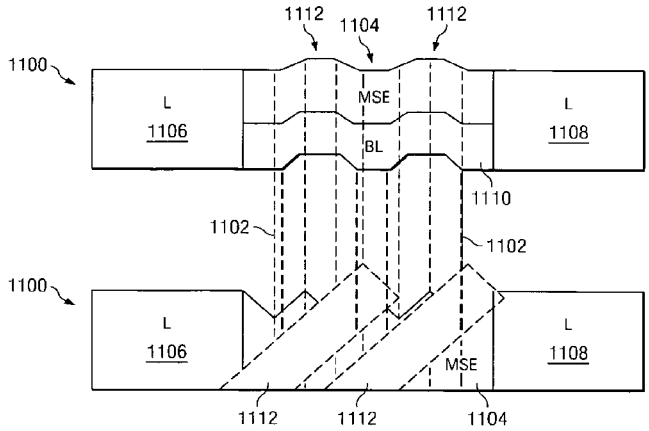
(57) **ABSTRACT**

The present invention provides apparatus and method for controlling the asymmetrical properties of the response of a magnetic sensor element to a magnetic field produced by the digital data in a magnetic storage device. The present invention also provides an apparatus and method for controlling the bias point of a magnetic field produced by a magnetic sensor element.

3 Claims, 6 Drawing Sheets