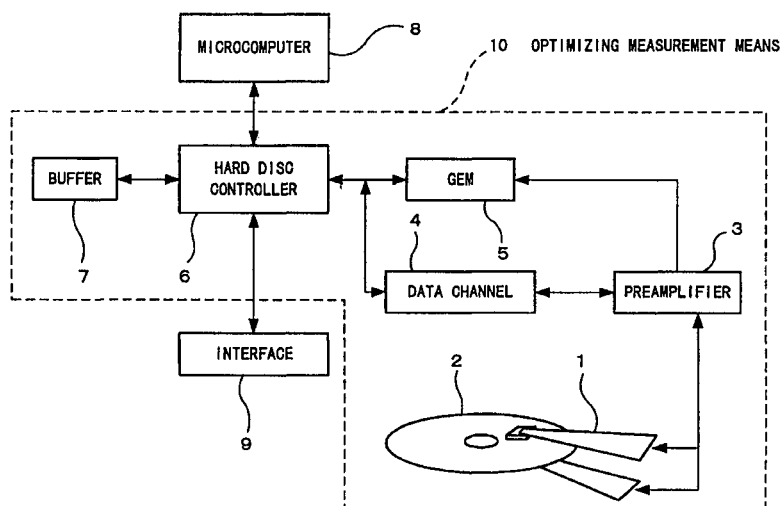




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(54) Title: METHOD FOR CONTROLLING BIAS CURRENT FOR MAGNETORESISTIVE HEAD, FIXED MAGNETIC RECORDING DEVICE, AND MAGNETIC DISC THEREFOR

**(57) Abstract**

It is an object of the present invention to enable a bias current for an MR head to be optimized as appropriate during an operation of a fixed magnetic recording device in order to restrain a possible asymmetrical distortion originating in a saturation in the reproduced signal from the MR head, thereby reducing the error rate during data read-outs. A fixed magnetic recording device according to the present invention comprises optimizing measurement means (10) for conducting measurements for optimizing a bias current value for the MR head in a head structure section (1) each time the MR head accesses a magnetic disc (2), and a microcomputer (8) for controlling optimizing measurement means (10) and outputting an instruction for updating of a bias current value for the MR head to the measured optimum bias current value for storage and an instruction for the supply of the updated and stored optimum bias current to the MR head.

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