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ABSTRACT

A fixed magnetic recording device which can suppress dispersions appearing, upon manufacturing, on an effective track width and a longitudinal bias magnetic field of a magnetic head using a hard bias system. A magnetic recording device, which includes a magnetic head using a hard bias system, the head having a hard magnetic film (3) for adding a magnetic field in a longitudinal bias direction to a magnetic resistance film (1) and for controlling a magnetic domain, is characterized in that the hard magnetic film (3) includes a solenoid (4) for adjusting a magnetic field running in a longitudinal bias direction. Thus, it is possible to make fine adjustments on a magnetic field in a longitudinal bias direction and to maintain an optimum value. Consequently, it is possible to improve the linear response of a reproducing output of the magnetic head and to adjust an effective track width of the magnetic head.