



ABSTRACT OF THE DISCLOSURE

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MAGNETIC RECORDING MEDIUM AND MAGNETIC RECORDING MEDIUM
SUBSTRATE

If a soft magnetic layer for a double layer type perpendicular magnetic recording medium is formed by plating, then a large number of magnetic domains may be created which are magnetized in a specific direction in a range of several millimeters to several centimeters on the plating film surface that constitutes the soft magnetic layer, and magnetic domain walls are generated at the boundaries of these magnetic domains. If a soft magnetic layer containing such magnetic domain walls is used in double layer perpendicular magnetic recording media, then there is the problem of a large deterioration of signal reproduction characteristics caused by the generation of isolated pulse noise known as spike noise, through leaking magnetic fields generated by the magnetic domain wall portions. To solve this problem, a magnetic recording medium substrate comprises a substrate having a diameter of not more than 90 mm and a soft magnetic film plating layer comprising an alloy that comprises at least two metals selected from the group consisting of Co, Ni and Fe, which is disposed on the substrate, wherein with respect to a concentric circular direction within the substrate plane, a value of the coercive force obtained by a VSM magnetization measurement, is less than 30 oersteds, and a ratio of saturation magnetization to residual magnetization is from 50/1 to 5/1.

FIG.2



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