

PERPENDICULAR MAGNETIC RECORDING MEDIA AND MAGNETIC
RECORDING AND REPRODUCING APPARATUS USING THE SAME

ABSTRACT OF THE DISCLOSURE

To provide a perpendicular magnetic recording medium which reduces noise with the output maintained, increases the fluctuation field of magnetic viscosity sufficiently, and has sufficiently high medium S/N suited to high density recording and a magnetic recording and reproducing apparatus applying it, by using a ferromagnetic polycrystalline thin film having main components of cobalt and chromium in which the coercivity is 1500 oersted or more and the fluctuation field of magnetic viscosity is 30 oersted or more as a magnetic recording layer of the perpendicular magnetic recording medium and by controlling the film thickness within a range from 30 nm to 100 nm, a perpendicular magnetic recording medium with low noise and high output which is suited to high density recording can be obtained and a large capacity magnetic recording and reproducing apparatus can be provided by using this medium.

FIG. 1

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