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Abstract



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PERPENDICULAR MAGNETIC RECORDING MEDIUM AND FABRICATION METHOD THEREOF

A perpendicular magnetic recording medium, characterized in that the magnetic recording layer of the perpendicular magnetic recording medium is deposited by stacking a CoCr alloy crystalline film, and a rare earth-transition metal alloy noncrystalline film, the CoCr alloy crystalline film having a film thickness of 10nm or more and no more than 30 nm, and the rare earth-transition metal alloy noncrystalline film having a film thickness of 2 nm or more and no more than 15 nm, and in that, when the film thickness of the CoCr alloy crystalline film is a, and the film thickness of the rare earth-transition metal alloy noncrystalline film is b, the film thickness ratio a/b is equal to or more than 2, and a fabrication method for a perpendicular magnetic storage medium, characterized in that a rare earth-transition metal alloy noncrystalline film is deposited under the condition that the gas pressure is 10 mTorr or more and no more than 200 mTorr, and is preferably 20 mTorr or more and no more than 100 mTorr.

Figure 1