

Abstract

Perpendicular Magnetic Recording Medium

A perpendicular magnetic recording medium which has no shift or loss of written signals even in the case of a high recording density in the rare earth - transition metal alloy amorphous film, and moreover productivity is excellent.

The perpendicular magnetic recording medium has a structure in which at least a soft magnetic under layer 4, an intermediate layer 5, a magnetic recording layer 6 and a protective layer 7 are formed in order on a nonmagnetic substrate 1, and moreover a liquid lubricant layer 8 is formed thereupon. The magnetic recording layer 6 comprises a rare earth - transition metal alloy amorphous film. Examples of the rare earth - transition metal alloy amorphous material are TbCo, TbFeCo and so on. At least one of Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, B, Al, C and Si or a boride or carbide thereof is contained in the rare earth - transition metal alloy amorphous film, with the form of existence thereof being that it is uniformly dispersed through the rare earth - transition metal alloy amorphous film.

Fig. 1



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