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Abstract

Perpendicular magnetic recording medium and a method for

5 manufacturing same

An object of the present invention is to provide a perpendicular magnetic recording medium that exhibits high density magnetic recording, excellent electromagnetic conversion characteristics,
10 and superior thermal stability.

A magnetic recording layer of a perpendicular magnetic recording medium of the present invention consists of two layers. First magnetic layer, which is a lower layer, comprises crystal grains of a ferromagnetic Co-Cr alloy system and nonmagnetic grain
15 boundaries mainly composed of oxide or nitride, and a thickness a of the first magnetic layer is from 10 nm to 30 nm. Second magnetic layer, which is an upper layer, comprises an amorphous alloy film composed of rare earth element(s) and transition metal element(s), and a thickness b of the second magnetic layer is from
20 2 nm to 15 nm. A ratio a/b of the thickness a of the first magnetic layer and the thickness b of the second magnetic layer is at least two.

[Selected drawing]

Figure 1

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