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ABSTRACT

PERPENDICULAR MAGNETIC RECORDING MEDIUM AND THE METHOD OF MANUFACTURING THE SAME

The perpendicular magnetic recording medium according to the invention includes at least a nonmagnetic substrate 1, an intermediate layer 5 above the nonmagnetic substrate 1, a magnetic recording layer 6 on the intermediate layer 5, a protective layer 7 on the magnetic recording layer 6, and a liquid lubricant layer 8 on the protective layer 7, and the magnetic recording layer is an amorphous alloy layer including a rare earth element and a transition metal such as a TbCo layer and a TbFeCo layer containing from 1 at. % to 15 at. % of Ag added to fix the domain walls between the recorded bits and to prevent the bits recorded at a high line recording density from shifting or erasure.

Selected Drawing Fig. 1

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