

ABSTRACT

MAGNETIC RECORDING MEDIUM AND THE METHOD OF MANUFACTURING THE SAME

5

The magnetic recording medium according to the invention includes, a magnetic recording layer 3, which is not the conventional CoCrPt layer but a granular magnetic layer including ferromagnetic crystal grains and an oxide nonmagnetic grain boundary or a nitride nonmagnetic grain boundary
10 surrounding the ferromagnetic crystal grains, and an overcoating layer 4 on the granular magnetic recording layer 3, and the overcoating layer 4 contains a nonmagnetic metal or a nonmagnetic alloy to be diffused into the nonmagnetic grain boundary. In contrast to the conventional CoCrPt layer, the atoms coated on the granular magnetic recording layer 3 diffuse into the
15 nonmagnetic grain boundary even when any annealing treatment is not conducted, and promote isolating the ferromagnetic crystal grains from each other.

Selected Drawing

Fig. 1

