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Abstract

Magnetic Recording Medium and Manufacture Method Therefor

An object of the present invention is to reduce noise by precisely controlling the crystal orientation of the magnetic layer in a magnetic recording medium in which at least a nonmagnetic base layer, a nonmagnetic intermediate layer, a magnetic layer of a granular structure comprising hexagonal close-packed ferromagnetic crystal grains and nonmagnetic oxide boundaries surrounding such ferromagnetic crystal grains, a protective film, and a liquid lubricant layer are sequentially stacked on a nonmagnetic substrate.

The nonmagnetic base layer uses a material having a body-centered cubic structure, in principle, and its (200) plane shows preferred crystal-orientation parallel with the film surface. The nonmagnetic intermediate layer uses a material having a hexagonal close-packed structure, and its (110) plane shows preferred crystal-orientation parallel with the film surface.

Selected Drawing

Fig. 1