Abstract

Perpendicular Magnetic Recording Medium and Manufacturing Method Thereof

In the case of a perpendicular magnetic recording medium in which at least an antiferromagnetic layer 4, a soft magnetic layer 6, a magnetic recording layer 8, a protective layer 9 and a liquid lubricant layer 10 are formed on a nonmagnetic substrate 1, the perpendicular magnetic recording medium has an orientation controlling layer 3 that is made of a material comprising at least Ni and Fe and having at least one element selected from the group consisting of B, Nb and Si added thereto, and is formed immediately below the antiferromagnetic layer 4, and a seed layer 2 that is made of Ta, and is formed immediately below the orientation controlling layer 3.

Selected Drawing Fig. 1