G00002

Abstract

Magnetic Recording Medium

A magnetic recording medium of the present invention comprises a substrate 101, an underlayer 102 of a nonmagnetic film with a bcc structure formed on the substrate, an intermediated layer 103 of a nonmagnetic film with a hexagonal closest packed crystal structure formed on the underlayer, a magnetic layer 104 of a magnetic film with a hexagonal closest packed crystal structure formed on the intermediate layer, and a protective layer 105 formed on the magnetic layer. Materials used for the underlayer 102, the intermediate layer 103, and the magnetic layer 104 hold a relation among spacings between principal lattice planes of respective crystals. The relation is: the spacing d1 between (110) planes in the underlayer > the spacing d2 between (002) planes in the intermediate layer > the spacing d3 between (002) planes in the magnetic layer.

Selected drawing Figure 2

162162