

Abstract

MAGNETIC RECORDING MEDIUM AND MANUFACTURING METHOD THEREFOR

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An object of the present invention is to achieve noise reduction by precisely controlling the crystal orientation of the magnetic layer in a magnetic recording medium that comprises a non-magnetic substrate and layers and a film sequentially laminated on the substrate, the layers and a
10 film including at least a non-magnetic under-layer, a magnetic layer with granular structure that is consisted of ferromagnetic grains having hexagonal closest packed structure and non-magnetic grain boundaries surrounding the grains and mainly composed of oxide, a protective film, and a liquid lubricant layer.

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For the under-layer, a material is used in which the lattice structure is body-centered cubic and the preferential crystal orientation plane parallel to the film surface is (200) plane.

20 Fig. 1

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