

Abstract

Perpendicular Magnetic Recording Medium and Manufacturing method therefor

A method of manufacturing a perpendicular magnetic recording medium suitable for mass production using conventional CoCr-based magnetic recording material to increase uniaxial anisotropy constant (hereinafter referred to as "Ku"), characterized by the steps of depositing an underlayer on a nonmagnetic substrate, forming a magnetic recording layer on the underlayer, quenching the magnetic recording layer, depositing a protective layer on the magnetic recording layer, and depositing a liquid lubricant layer on the protective layer. The steps are carried out in this order to improve uniaxial anisotropy Ku and coercive force Hc of the magnetic recording layer. When Ku is increased, improved thermal stability is achieved.

[Selected Drawing] Fig. 1

