

## Abstract

Perpendicular magnetic recording medium and a method for manufacturing same

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A perpendicular magnetic recording medium according to the invention comprises a magnetic layer 6 that has a basic structure of a multilayered lamination film composed by laminating mainly cobalt layers 6a of cobalt layers and noble metal layers 6b of platinum layers (or palladium layers). At least one type of layers of the cobalt layers and the platinum layers (or the palladium layers) contains at least one element selected from the group consisting of Ru, Ta, Nb, Mo, Mn, Cr, Si, and Ni, or an oxide, in a concentration in the range from 1 to 15 mol%. The magnetic layer is formed on an underlayer 5 of ruthenium or the like provided for the purpose of reducing magnetic interaction between magnetic particles constituting the magnetic layer 6. The surface of the underlayer 5 is treated for oxygen adsorption before depositing the magnetic layer 6 in order to suppress magnetic interaction between magnetic particles in the magnetic layer 6.

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Selected drawing      Figure 1