

ABSTRACT

METHOD FOR MANUFACTURING PERPENDICULAR MAGNETIC RECORDING MEDIUM

A method for manufacturing perpendicular magnetic recording medium which includes magnetic recording layer having desired film thickness while maintaining high magnetic anisotropy and having more homogenized magnetic characteristics. The method includes: (A) preparing non-magnetic substrate; (B) laminating magnetic recording layer on the substrate; and (C) heating the substrate on which the magnetic recording layer is laminated to a temperature of 400 to 600 °C. The step (B) includes at least forming a first magnetic recording layer and a second magnetic layer thereon. The first layer has a granular structure including a first magnetic crystal grain constituted by an ordered alloy surrounded by a first non-magnetic grain boundary constituted by carbon, and the second layer has a granular structure including a second magnetic crystal grain constituted by an ordered alloy surrounded by a second non-magnetic grain boundary constituted by a non-magnetic material constituted by boron and carbon.

(Figure 1)