ABSTRACT

MAGNETIC RECORDING MEDIUM AND METHOD FOR PRODUCING SAME

Provided is a perpendicular magnetic recording medium (10) having a magnetic recording layer (5) containing an ordered alloy suitable for perpendicular magnetic recording by using seed layers (2, 3, 4). A recording density while ensuring required thermal stability is improved. To increase thickness of the magnetic layer and reduce grain size are both achieved. A magnetic recording medium (10) is provided including in the order recited: a substrate (1), a first seed layer (2), a second seed layer (3) containing ZnO, a third seed layer containing MgO, and a magnetic recording layer (5) containing an ordered alloy, wherein the first seed layer (2) contains Ru and at least one material selected from the group consisting of oxides, carbides, and nitrides.

(FIG. 1)