ALLOY FOR SOFT MAGNETIC FILM LAYERS, WHICH HAS LOW SATURATION MAGNETIC FLUX DENSITY AND IS TO BE USED IN MAGNETIC RECORDING MEDIUM, AND SPUTTERING ~~TERGET~~ TARGET MATERIAL

[Cross-Reference to Related Application]

[0001]

This application claims priority to Japanese Patent Application No. 2012-22096 filed on February 3, 2012, the entire content of which is incorporated herein by reference.

[Technical Field]

[0002]

The present invention relates to an alloy and a sputtering target material for a soft magnetic film layer used in a magnetic recording medium and having low saturation magnetic flux density.

[Background Art]

[0003]

In recent years, there have been remarkable progresses in magnetic recording technology, heightening of recording densities in magnetic recording media has been proceeding due to increasing drive capacities, and perpendicular magnetic recording system, which achieves further high recording density when compared to longitudinal magnetic recording media conventionally used, has been put into practical use. Furthermore, as an application of the perpendicular magnetic recording system, a method for assisting recording by heat or microwaves has also been examined.

[0004]

The perpendicular magnetic recording system described above is a system in which a magnetization-easy axis is oriented in the direction perpendicular to the medium surface of a magnetic film of a perpendicular magnetic recording medium, and is a method suitable for high recording density. For perpendicular magnetic recording system, a double-layer recording medium having a magnetic recording film layer with an increased