SOFT MAGNETIC ALLOY FOR MAGNETIC RECORDING, SPUTTERING TARGET MATERIAL, AND MAGNETIC RECORDING MEDIUM

ABSTRACT

There are provided a Co-based soft magnetic alloy for magnetic recording, used as a soft magnetic layer in a perpendicular magnetic recording medium, a sputtering target material, and a magnetic recording medium. The soft magnetic alloy for magnetic recording is a soft magnetic alloy for magnetic recording, comprising: in at.%, 0.5 to 29.5% of one or more of A group elements selected from Ta, Nb, and V; 0.0 to 29.5% of one or more of B group elements selected from Cr, Mo, and W; and the balance being Co, Fe, and unavoidable impurities, wherein: a ratio of Fe:Co is 10:90 to 70:30; a total content of the A group elements and the B group elements is 10 to 30%; and a hydrogen content is less than 20 ppm.