

ABSTRACT

The purpose of the present invention is to provide a magnetic recording medium capable of achieving high recording density by decreasing the bit transition width of a heat-assisted magnetic recording medium during the heat-assisted recording stage. The magnetic recording medium according to the present invention includes a non-magnetic substrate and a magnetic recording layer, wherein the magnetic recording layer includes an ordered alloy containing Fe, Pt and Ru, the ordered alloy includes x atom% of Fe, y atom% of Pt and z atom% of Ru on the basis of the total number of the Fe, Pt and Ru atoms, and the parameters x, y and z satisfy the following expressions (i)-(v): (i) $0.85 \leq x/y \leq 1.3$; (ii) $x \leq 53$; (iii) $y \leq 51$; (iv) $0.6 \leq z \leq 20$; and (v) $x+y+z = 100$.

(Figure 4)