

ABSTRACT

The present invention is directed to a magnetic recording device including a plurality of magnetic disks that each include a substrate having a thickness of 0.51 mm or less and a magnetic recording layer formed on the substrate, and a spacer that is disposed between the plurality of magnetic disks and is used to layer the magnetic disks at a predetermined interval, and the substrate and the spacer satisfy an expression (1):

$$[\text{CTE}(\text{sub}) \cdot \text{E}(\text{spa})] / [\text{CTE}(\text{spa}) \cdot \text{E}(\text{sub})] < 1.0 \cdots (1)$$

(where CTE(sub) is a coefficient of thermal expansion ($\times 10^{-7}/\text{K}$) of the substrate at 100°C to 300°C, CTE(spa) is a coefficient of thermal expansion ($\times 10^{-7}/\text{K}$) of the spacer at 100°C to 300°C, E(sub) is a Young's modulus (GPa) of the substrate, and E(spa) is a Young's modulus (GPa) of the spacer).