

ABSTRACT

MAGNETIC DISK EVALUATING APPARATUS AND METHOD

A magnetic-disk evaluating apparatus for determining, without writing actual servo signals to a magnetic disk, whether temporary servo signals previously written to a magnetic disk by means of magnetic transfer are acceptable.

A magnetic head is positioned on the basis of temporary servo signals read by a magnetic head 102, and the fluctuation of the magnetic head in a seek direction is measured using a laser Doppler vibrometer 53. A measuring rotating arm 51 moving in an interlocking manner with a rotating stage 100 for holding a rotary positioner 104 is provided, and the laser Doppler vibrometer is installed on the measuring rotating arm. Driving of the rotary positioner is controlled on the basis of the temporary servo signals so that the magnetic head is positioned on a concentric circle in the center of a spindle motor 12. The fluctuation of the magnetic head in the seek direction is measured to detect the displacement of the tip of the magnetic head on the basis of the displacement in order to determine on the basis of the displacement whether the temporary servo signals are acceptable.

Fig. 6