

ABSTRACT

METHOD AND APPARATUS OF MAGNETICALLY TRANSFERRING INFORMATION SIGNAL FROM MASTER MEDIUM TO SLAVE MEDIUM

When executing a magnetic transfer by bringing a master medium and a slave medium into close contact with each other and applying a transferring magnetic field, a permitted limit of the application direction of the transferring magnetic field is defined so that magnetic patterns can be accurately transferred. A slave medium 2 is previously initial DC magnetized in a track direction by applying a magnetic field to the slave medium in the track direction of a slave surface, and when executing a magnetic transfer by bringing the master medium 3 and the slave medium 2 into close contact with each other and applying the transferring magnetic field in the track direction of the slave surface, the application angle α of the transferring magnetic field is defined within a range of $\pm 30^\circ$ in a vertical direction with respect to the slave surface. Furthermore, the application angle of the transferring magnetic field is defined within a range of $\pm 30^\circ$ with respect to the track direction on a plane parallel to the slave surface.

Figure 1

