

ABSTRACT

MASTER CARRIER FOR MAGNETIC TRANSFER

To improve the quality of transfer signal by reducing loss of azimuth when the magnetic transfer is performed by bringing a master carrier and a slave medium into close contact with each other and applying transfer magnetic field thereto, even if the width of track is narrowed.

The master carrier 3 has a pattern which corresponds to a transfer information for high density recording and is formed of a soft magnetic layer 32 with a width W of track of $3\mu\text{m}$ or less, wherein the pattern is written and formed by scanning with an electron beam EB of which a writing diameter d is smaller than the width W of track, on a same track over plural times. Writing is performed approximately to a rectangular shape, whereby the loss of azimuth can be reduced and the accuracy of transfer can be enhanced.

Figure 1

