

MASTER INFORMATION CARRIER FOR MAGNETIC TRANSFER

ABSTRACT OF THE DISCLOSURE

A master information carrier for magnetic transfer has a concentric irregularity pattern representing information to be transferred to a disc-like magnetic recording medium. The top surface of the protruding portions of the irregularity pattern is formed of magnetic material. The irregularity pattern is formed so that the width L [nm] in a circumferential direction of a protruding portion at a distance R [nm] from the center satisfies the condition

$$L = \alpha(\omega \cdot \Delta T \cdot R), \quad 0.8 \leq \alpha \leq 1.4,$$

wherein ω represents in [rad/sec] the angular velocity of the magnetic recording medium when a signal is read out from the magnetic recording medium after the magnetic transfer and ΔT represents in [sec] a desired signal time width of a reproduction signal waveform in a magnetization transition region corresponding to an interval between the ends of the protruding portion in the circumferential direction.

FIG. 3



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