

INDUCTION MAGNETIC TRANSDUCER AND DRIVING CIRCUIT
THEREFOR

ABSTRACT OF THE DISCLOSURE

An induction magnetic transducer for magnetically writing and reading informational data by detecting a change of magnetic flux due to electromagnetic induction. The transducer has a continuous coil having at least three terminals. A pair of terminals selected from at least three terminals constitutes a reading terminal pair and another pair constitutes a writing terminal pair so that an inductance of a writing coil defined between the pair of writing terminals is smaller than that of a reading coil defined between the pair of reading terminals. A recording current in forward and reverse directions is passed through only the writing coil. With the above construction, the inductance of the writing coil is reduce while maintaining the inductance of the reading coil high, and a means for switching a writing coil to another, which causes a time delay, can be omitted. As a result thereof, an induction magnetic transducer and driving circuit applicable to a high density and high frequency recording while ensuring a sufficient level of reproduction output can be provided.

Figure 1