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ABSTRACT

UNITARY MAGNETIC TRANSDUCER AND SUSPENSION STRUCTURE

A unitary magnetic transducer and suspension assembly suitable for use in both contact recording and in winchester-type applications is described. A generally rectangular elongate flat suspension member includes a ring-type inductive read/write transducer formed integrally with the suspension member and is embedded in one end of the suspension member. The ring-type inductive transducer is suitable for horizontal recording applications. The transducer magnetic poletips and magnetic gap are formed and positioned such that the poletips and gap are essentially co-planar with the air bearing surface of a slider-shaped protrusion extending from the lower surface of the end of the suspension member adjacent a moving media during operation. The air bearing surface presented to the disk has most of its area covered with a wear layer to minimize wear of the slider surface and poletips.

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