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(54) Title: DUAL IDENTIFICATION FOR DATA FIELDS OF A DISK DRIVE

(57) Abstract

A disk drive comprises a storage disk mounted for rotation, a head having separate read and write transducers arranged in separate respective read and write gaps, and a rotary actuator for mounting the head for reading and writing data from and to the storage disk. The rotary actuator causes a skew angle between the read and write gaps and the data tracks during read and write operations. The storage disk comprises a magnetizable surface having a plurality of circumferentially extending data tracks defined on the magnetizable surface. Each data track includes at least one data sector comprising a data field for storing data and control information for use in reading the data sector. Each data track further includes a write ID field containing data sector identification information for reading by the read transducer of the head during a write operation of the data sector and a read ID field containing data sector identification information for reading the read transducer of the head during a read operation of the data sector. The write ID field is arranged in the respective data track at a position radially offset from the data sector, as a function of the skew angle such that the read gap is centered over the write ID field when the write gap is centered over the at least one data sector. The write ID field includes control information for use in reading the write ID field. The read ID field is arranged within the data sector such that the control information of the data sector is used for reading the read ID field.