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MAGNETIC RECORDING ENCODER SYSTEM FOR A (1,7) CHANNEL HAVING A 2/3 CODING RATE

ABSTRACT

An improvement in a system for encoding a data field on a disk with write gate data. The system has an encoder and a data receiving controller for directing write gate data in the form of 0 and 1 bits to the encoder. The encoder, in response to the write gate data, produces a primary code in the form of 0 and 1 bits and directing the primary code to the disk. The primary code has certain predetermined criteria with the encoder producing a secondary coding rate as an exception when the write gate data does not result in the predetermined criteria. The improvement comprises a mechanism for ensuring that the last predetermined number of bits in the data field are free from the exception.

(Figure 1)