HEADER AND SERVO SECTORING FOR EMBEDDED SERVO HARD DISC DRIVES

ABSTRACT OF THE DISCLOSURE

A sectoring circuit (22) locates data storage sectors in data tracks (60, 62) on a rotating disc (24) of a data storage device (20) having a transducer head (30) positioned by a servo system (44, 36) relative to the rotating disc (24) for writing to and reading from the sectors. The servo system (44, 36) provides servo error signals in response to the transducer head (30) passing over servo patterns (64) embedded in the rotating disc (24). The sectors are positioned in data wedges (70-80, 82-92) extending between respective pairs of servo patterns. A header (66, 68, 93) is stored on the rotating disc (24) and is associated with a data wedge. The sectoring circuit (22) locates the header in reference to a servo pattern to receive and store information from the header including an identification field identifying the header and offset fields indicating a distribution of bytes for sectors split between data wedges. Control circuitry (176) locates the sectors based on values of the identification field and the offset fields.

(REFER TO FIG. 1)