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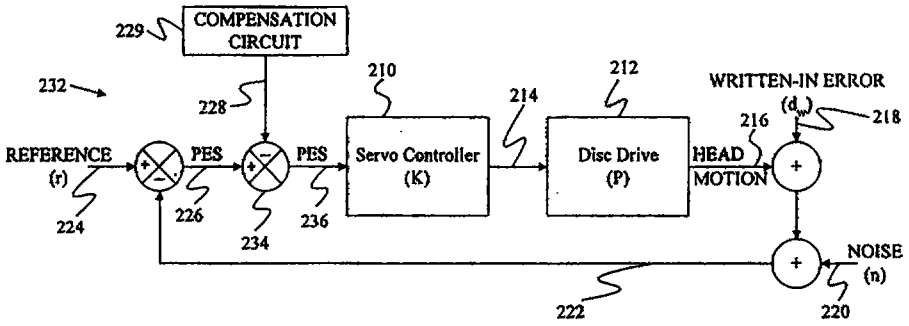
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(54) Title: CONCENTRIC SPACING OF VIRTUAL DATA TRACKS USING RUN–OUT COMPENSATION



(57) Abstract

Disclosed are a method and apparatus for compensating for written–in repeatable run–out in a disc drive (100). A written–in repeatable run–out compensation value (228) is stored in a servo field (204, 206) residing on a track (202). The compensation value (228) is subtracted from a corresponding servo value (226) to obtain a compensated servo value (236). The head (112) is positioned relative to the track (202) based upon the compensated servo value (236). Also disclosed is a method for determining the written–in repeatable run–out compensation values (228) wherein the head (112) is positioned over the intended center of the track (202) so that the head (112) follows an essentially circular path (200) relative to the disc surface. For each revolution of the disc (106), a servo value indicating the position of the head (112) relative to the track (202) at the servo field (204, 206) is determined. The servo values are averaged over a number of revolutions in order to extract a non–repeatable portion of the run–out.

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