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Stallinga et al.

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(54) **TRACKING SYSTEM WITH DUAL DIFFERENTIAL SIGNALS WITH FRACTION OF A/C SIGNAL ADDED BACK TO D/C SIGNAL**

(52) **U.S. Cl.** 369/44.41

(58) **Field of Classification Search** 369/44.41
See application file for complete search history.

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(57) **ABSTRACT**

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Tracking system for guiding an optical beam on tracks on an optical disc, said tracking system comprising a photodetector (A1, A2) for detecting optical beams derived from said optical beam, said photodetector generating a first output signal (A) and a second output signal (B), said tracking system comprising first processing means for generating a first differential signal (PP(DC)) corresponding to the low-frequency part of a difference between said first and second output signals. The tracking system comprises second processing means for generating a tracking error signal (PP(AC/DC)) defined by the addition of said first differential signal (PP(DC)) to a second differential signal (PP'(AC)), said second differential signal corresponding to a fraction of the difference in amplitude of the high-frequency components of said first and second output signals. Use: Optical disc player/writer.

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(51) **Int. Cl.**

G11B 7/007 (2006.01)

6 Claims, 4 Drawing Sheets



