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ABSTRACT OF THE DISCLOSURE (FIG. 2)

"HEAD POSITION CALCULATION METHOD
IN MAGNETIC DISC APPARATUS"

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When a sub-track having burst data A and D, a
sub-track having burst data A and C, a sub-track
having burst data B and C, and sub-track having burst
data B and D are repeatedly arranged in this order, in
10 accordance with equations 1 and 2, a sub-track $\underline{t}$
included in a track T determines the value of a
constant $\underline{n}$ within a range of 1.2 (inclusive) to 1.8
(inclusive) so as to obtain linearity between a
position in a disc radial direction $\underline{r}$ and a head
15 position P in a disc radial direction $\underline{r}$ in the sub-
track $\underline{t}$. Subsequently, the head position P is
calculated using the determined constant $\underline{n}$ and
equations 1 and 2:

$$P = (A - B) * |A - B|^{(n - 1)} / (|A - B|^n + |C - D|^n) \dots (1)$$

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$$P = (C - D) * |C - D|^{(n - 1)} / (|A - B|^n + |C - D|^n) \dots (2)$$



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