

ABSTRACT OF THE DISCLOSURE (FIG. 1)

"PERPENDICULAR MAGNETIC RECORDING APPARATUS
HAVING DISCRETE TRACK MEDIA"

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A perpendicular magnetic recording apparatus has
a discrete track media including a substrate and a
soft magnetic layer and a perpendicular recording
layer formed on the substrate, the perpendicular
10 recording layer including guard bands magnetically
separating recording tracks from one another on the
surface thereof, and a magnetic head including a main
pole, an auxiliary yoke, and a coil. The main pole is
adapted to have a shape on the air bearing surface
15 satisfying a condition that a length of a line segment
which is formed by projecting a side of the main pole
along a head traveling direction onto a straight line
perpendicular to the head traveling direction is
smaller than a width of each of the guard bands in the
20 discrete track media even when the main pole is
positioned on any recording track of the discrete
track media.



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