

ABSTRACT OF THE DISCLOSURE (FIG. 2)

"PERPENDICULAR MAGNETIC RECORDING HEAD AND
PERPENDICULAR MAGNETIC RECORDING APPARATUS"

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A perpendicular magnetic recording apparatus includes a magnetic disk having a perpendicular double-layer film and a perpendicular magnetic recording head having a leading pole positioned forward along the head traveling direction, a trailing pole positioned backward along the head traveling direction at a gap length from the leading pole and having, in an air-bearing surface, a forward pole and a rearward pole of which saturation magnetic flux density is higher than that of the forward pole, and an exciting coil. A length p of the trailing pole along the head traveling direction is longer than a length T of the trailing pole in a track width direction, the length p is longer than the gap length g_1 , and a length p_1 of the rearward pole is shorter than a length p_2 of the forward pole along the head traveling direction.

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