

ABSTRACT OF THE DISCLOSURE (FIG. 1)

"PERPENDICULAR MAGNETIC DISK APPARATUS"

A perpendicular magnetic disk apparatus has a perpendicular recording medium including a soft
5 underlayer and a perpendicular recording layer, and a
write head including a main pole, a return yoke and
an exciting coil, in which a product of a
magnetostriction constant λ [E-6] of the main pole and
a stress S [MPa] acting on the main pole, and a
10 coercivity H_c [Oe] of the medium meet the following
formula:

$$\lambda \times S > 30,000,000/H_c.$$



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