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Abstract



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Substrate for Perpendicular Magnetic Recording Medium,

Perpendicular Magnetic Recording Medium using the Substrate, and

5 Method for those Production

The object of the present invention is to offer a substrate for perpendicular magnetic recording, a perpendicular magnetic recording medium using the substrate, and the method of manufacturing the substrate and the medium. Provided is an increase in the
10 recording density of a magnetic layer by the substrate, medium, and process of the present invention, the substrate, medium, and process keeping recorded track width from growing, when a ring type thin film magnetic recording head or a single-pole magnetic recording head writes and read out the perpendicular magnetic recording medium of a double-layer type with the skew angle of the magnetic pole varied.

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The side of a substrate is grooved in concentric circles to give a land and a groove alternated with each of the land and the groove arranged at regular intervals. Equalized is the total of land width and groove width to the track pitch of a magnetic recording head used in magnetic recording. The land is to have land widths equal to or less than
20 the effective recorded track width of the magnetic recording head, and the groove to have depths 200 nm or more.

Fig. 2

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