GLASS SUBSTRATE FOR INFORMATION RECORDING MEDIUM, METHOD OF MANUFACTURING THE SUBSTRATE, MAGNETIC RECORDING MEDIUM USING THE GLASS SUBSTRATE, AND METHOD OF MANUFACTURING THE MEDIUM

ABSTRACT

In a magnetic recording medium, surface roughness of a glass substrate (1) and the variation of the surface roughness are suppressed to the predetermined range. Namely, the surface roughness (Rmax, Ra, Rq) and the relation (Rmax/Ra) between Rmax and Ra are restricted to the predetermined range. In this event, Ra is representative of a center-line mean roughness, Rmax is defined as a maximum height representative of a difference between a highest point and a lowest point and Rq is representative of a root mean square roughness. Thereby, crystal grains of an underlying layer (2,3) and a magnetic layer (6) formed thereon are equalized. Specifically, the surface roughness is specified by Rmax $\leqq$ 15 nm, Ra $\leqq$ 1nm and Rq $\leqq$ 1.5 nm. Further, the ratio between the surface roughness Rmax and the surface roughness Ra is specified by Rmax/Ra $\leqq$ 30.

Fig. 1

This Sheet Has Been Replaced

