

NONMAGNETIC SUBSTRATE AND MAGNETIC HEAD USING THE SAME
ABSTRACT OF THE DISCLOSURE

A nonmagnetic substrate includes NiO , TiO_2 , ZnO , and CaO as major constituents, and major ilmenite and spinel structures, in which the percentage of the total area of the ilmenite and spinel crystalline domains occupied in the area of a given cross section of the nonmagnetic substrate is 20% or more. Preferably, the remainder of the area of the cross section, other than the ilmenite and spinel crystalline domain, contains a CaTiO_3 phase and a TiO_2 phase.

FIGURE 1