THIN FILM MAGNETIC DISK WITH CHROMIUM-TITANIUM SEED LAYER

Abstract

The present invention describes a disk drive and a thin film magnetic disk with improved recording performance of a magnetic medium having a thin seed layer (12) material consisting of a CrTi alloy between the underlayer (13) and the substrate (11). The seed layer thickness should be between 5-150Å with 5-30Å being preferable. The percentage of Ti should be greater than 5 at % with recording performance of the magnetic medium improving with increased percentage of Ti. The addition of Ti to Cr, increases the operable thickness range for the seed layer and, thereby, improves the manufacturability.

Figure 1.