

NONMETALLIC THIN FILM MAGNETIC RECORDING DISK WITH PRE-SEED LAYER

ABSTRACT

The design of a magnetic thin film disk, for use in a disk drive, with an amorphous or nanocrystalline pre-seed layer (11) preferably followed by a ruthenium-aluminum (RuAl) seed layer (12) is described. The pre-seed layer (11) may be CrTa or AlTi. The pre-seed layer (11) deposited over a glass substrate (10), for example, allows a more strongly orientated RuAl seed layer (12) to be deposited and, thus, favorably influences the orientation and grain size in the subsequent layers which include preferably at least one Cr alloy underlayer (13) and at least one magnetic layer (15).

Figure 2.