

Method for Producing Magnetic Recording Medium and Magnetic
Recording/Reproducing Apparatus

ABSTRACT

A method for producing a magnetic recording medium having a magnetically partitioned magnetic recording pattern on at least one surface of a nonmagnetic substrate, characterized by comprising a step of reacting portions of a magnetic layer, formed on the non-magnetic substrate, with ozone to modify magnetic properties of said portions of the magnetic layer for forming the magnetically partitioned magnetic recording pattern. The magnetic layer can be a two-layer structure comprising a magnetic layer having a granular structure and formed thereon a magnetic layer having a non-granular structure. The produced magnetic recording medium exhibits a greatly enhanced recording density while recording/reproducing characteristics equal to or better than those of the heretofore proposed magnetic recording mediums are maintained, and it can be produced with an enhanced efficiency.

Fig. 1