THIN-FILM MAGNETIC HEAD

ABSTRACT

A magnetoresistance effect thin-film magnetic head superior in magnetic stability and capable of developing a high playback power. The thin-film magnetic head has a magnetoresistance effect stabilizing layer 11 inclusive a diamagnetic film or a hard magnetic film, a non-magnetic insulating layer 12 and a magnetoresistance effect layer 13 inclusive of a magnetoresistance effect film, layered together to form a magnetoresistance effect element 3. The thin-film magnetic head also has a non-magnetic insulating layer 4 arranged on a lateral surface of the magnetoresistance effect element 3 and a pair of electrodes connected to the magnetoresistance effect layer 13 on both ends of the upper surface of the magneto-resistance effect element 3. The playback signals are detected by the magnetoresistance effect of the magnetoresistance effect layer 13.

Fig 3