

MAGNETIC READ/WRITE HEAD HAVING ELECTROMAGNETIC FIELD
CANCELLATION ELEMENT

ABSTRACT

A read/write head (10) is disclosed for writing information to magnetic media and reading information from magnetic media. It includes a write head (40) for writing information onto magnetic media, a read head (48) for reading information from the magnetic media, and an electrical circuit element (54) that is disposed proximate to the read head (48) that functions to generate an electromagnetic field at the read head (48) that is generally oppositely directed to the electromagnetic field generated by the write head (40). The method for operating the read/write head (10) in a hard disk drive includes the steps of writing data onto a hard disk, while simultaneously generating an electromagnetic field at the read head (48) that is directed oppositely to the electromagnetic field generated by the read head (40).

Fig 3