ABSTRACT

Actively Stabilized Magnetoresistive Head

A computer (10) comprising a data storage device (12, 13) for use with a magnetic storage media (16, 17, 18, 19), and a magnetoresistive transducer (38, 138, 238), including at least one magnetoresistive element (44), selectively reading digital data from the magnetic storage media; a first conductor connected to the magnetoresistive element and supplying current to the magnetoresistive element; a second conductor connected to the magnetoresistive element and transporting current from the magnetoresistive element; a control conductor (46, 170) parallel to the magnetoresistive element (44); and a magnetic feedback stabilization circuit (56, 156, 290) holding the magnetoresistive transducer in a stable magnetic configuration during reading from the magnetic storage media.

(Figure 5)