



**METHOD FOR REDUCING THE NUMBER OF WIRES BETWEEN THE
SLIDER AND THE AE MODULE IN AN MR DASD HEAD/SUSPENSION
DESIGN AND MR HEAD/SUSPENSION DESIGN MADE THEREFROM**

ABSTRACT

A method and apparatus for reducing the number of wires needed between the read/write elements 500 and the AE module. An inductive coil and a magneto-resistive element 506, 504 are formed on a substrate such that each includes an input signal 508, 510 lead and a ground return lead terminal. The ground return lead terminal of the inductive coil 506 and the magneto-resistive element 504 share a common ground return lead 502. The common ground return lead may be formed using a distinct wiring construct or by using a conductive substrate. A conductive suspension may also be formed wherein the conductive substrate is coupled to the conductive suspension.

Fig. 5