

DATA HEAD WRITER COIL TESTING

ABSTRACT OF THE DISCLOSURE

A writer coil in a data head of a data storage system is tested by
5 coupling detection circuitry to the writer coil and driving the writer coil with
a periodic pulse signal generated by the detection circuitry. As a result,
voltage is generated, with the detection circuitry, as a function of an
inductance of the writer coil. An inductance of the writer coil is calculated as
a function of the generated voltage. Electrical short circuits and
10 discontinuities in the writer coil are identified as a function of the calculated
inductance.

Figure 4