

METHOD FOR LINEARIZING MICROACTUATOR HYSTERESIS FOR A DISC DRIVE

Abstract of the Disclosure

5 Linearizing hysteresis of a microactuator for a disc drive by modeling the
microactuator with a first polynomial equation to provide a linear displacement
response of the microactuator responding to an applied voltage, deriving a set of
constants from a plurality of burst patterns for use with the first polynomial
equation to provide a set of variables for use in resolving the second polynomial
10 equation to provide a set of equations from which a set of constants can be derived
for use by the second polynomial equation to provide a voltage to the
microactuator to displace the microactuator by a predetermined incremental
distance.

15 Figure 2