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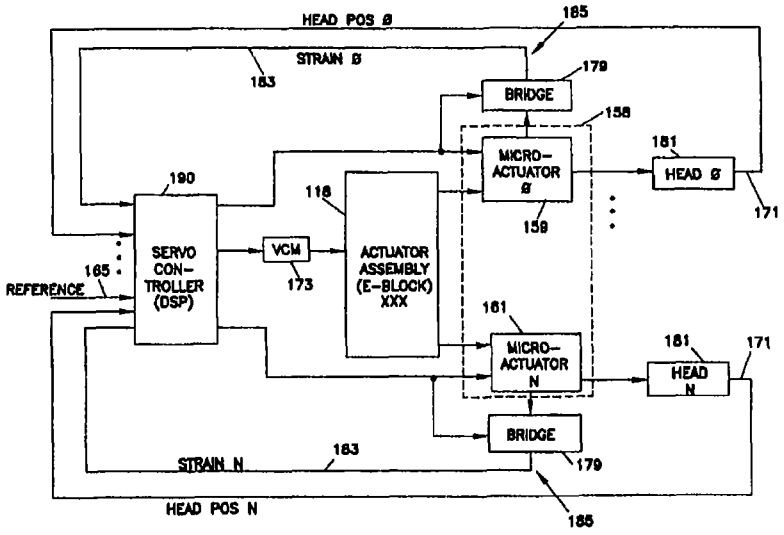
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(54) Title: VIBRATION CONTROL OF PIEZOELECTRIC MICROACTUATOR



(57) Abstract

A system and method for controlling vibration of a piezoelectric microactuator (158) in a disc drive (110) are disclosed. The mechanical strain on the piezoelectric microactuator (158) is ascertained and fed back to a controller (190, 175) which provides an electrical signal to the piezoelectric microactuator (158) based upon the sensed strain. The electrical signal provided to the piezoelectric microactuator (158) produces a mechanical force on the microactuator (158), which counteracts the sensed strain. In one embodiment, a bridge circuit (179) is coupled to the piezoelectric microactuator (158). The bridge circuit (179) is adapted to sense a voltage across the piezoelectric microactuator (158) and to separate the voltage across the piezoelectric microactuator (158) into a voltage externally applied to the piezoelectric microactuator (158) and a voltage induced on the piezoelectric microactuator (158) by mechanical strain.

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