

5 **FLEXURAL PIVOT FOR ROTARY DISC DRIVE ACTUATOR**

Abstract of the Disclosure

10 The present invention provides for a flexural pivot that can be fitted
within a cavity of an actuator. The pivot includes a first member that can be
coupled to the wall defining the cavity and a second member that can be
mounted to the disc drive housing component of the disc drive. At least two
leaves join external surfaces of the first member to the second member. The
present invention offers a flexural pivot that can be easily incorporated with
15 rotary actuators traditionally designed for use with a ball bearing pivot
cartridge. In addition, it avoids the difficulties encountered by conventional
designs when trying to assemble intersecting flat springs within a cylindrical
sleeve. Furthermore, in comparison with conventional flexural pivots that are
located outside the actuator body, the present invention provides a compact
20 pivot that can be mounted substantially in a cavity of the actuator body such
that the center of rotation of the actuator is located nearer the center of mass.

FIG. 2