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ABSTRACT

HEAD POSITIONING APPARATUS AND MANUFACTURING METHOD

5 This invention relates to a method for manufacturing a head positioning
apparatus for a data storage system and a head positioning apparatus made by
the above method, which removes the slider from being a movable part in the
second stage of the head positioning operation. By integrately forming an
electrostatic microactuator between the slider and the read/write heads, a aspect
10 ratio higher than 100:4 is achieved without using the high cost process such as
the X-ray exposing process. In addition, the weight of the second stage movable
parts are reduced therefore the servo control bandwidth may be increased and a
track density higher than 100 kTPI can be achieved.

15 (Figure 2)