

SWAGABLE METAL ARM TIP FOR CERAMIC ACTUATOR ARM AND E-BLOCK

ABSTRACT

The present invention relates generally to improvements in disk drive systems and in particular to mounting head gimbal assemblies with read/write heads to actuator arms. Disclosed is a method of forming a swagable metal actuator arm tip (11) having a metal swage plug for ceramic actuator arms, the method comprising the formation of a metal swage plug (41) within a tip opening (15) in an actuator arm, the metal insert (21) being an appropriate metal in either solid, thixoformable solid, or liquid (molten) form. The insert (21), once formed or adhered within the tip opening (15), constitutes the metal swage plug (41). There are six basic methods by which the metal insert (21) can be formed or adhered into the tip opening (15) to form the metal swage plug: cold forming, die casting, pressure infusion casting, forging, thixoforming, or the use of adhesives.

FIG. 9A