

ABSTRACT

A SHIELD IN A READ ELEMENT IN A MAGNETIC DATA HEAD

A layer of iron-silicon-aluminium alloy (114) is deposited over a seedlayer (112) of an amorphous alloy to form a shield for a read element in a magnetic data head. Percentage weights of iron, silicon, and aluminium in the iron-silicon-aluminium alloy are each selected such that the alloy has both near-zero magnetostriction and distinct magnetocrystalline anisotropy. Use of the amorphous alloy seedlayer results in greater magnetocrystalline anisotropy in the shield.

FIG. 6