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**METHOD OF SIMULTANEOUSLY INITIALISING TWO
ANTIFERROMAGNETIC LAYERS IN A MAGNETIC SENSOR**

Abstract

Magnetic tunnel junction (MTJ) and charge perpendicular-to-plane (CPP) magnetic sensors are disclosed which have a first antiferromagnetic layer for pinning the magnetization direction in a pinned layer and a second antiferromagnetic layer for providing bias stabilization of a free layer. The two antiferromagnetic layers may be formed from the same material and using a spin-flop effect may be initialized simultaneously. A disk drive using these sensors is disclosed.

Fig. 3a