

A MAGNETIC STRUCTURE AND A MAGNETIC RECORDING MEDIUM COMPRISING THE SAME

Abstract

The invention relates to a magnetic structure comprising a first magnetic layer comprising a soft magnetic material; a second magnetic layer comprising a hard magnetic material; and a coupling layer between the first magnetic layer and the second magnetic layer, wherein the coupling layer comprises a material that switches from an anti-ferromagnetic state to a ferromagnetic state upon heating above a transition temperature. A magnetic recording medium comprising the magnetic structure and a method of manufacturing the same are also provided.

Fig. 1