

APPARATUS INCLUDING A PERPENDICULAR MAGNETIC RECORDING LAYER HAVING A CONVEX MAGNETIC ANISOTROPY PROFILE

ABSTRACT

[0082] An apparatus may include a first magnetic layer, a first exchange break layer formed on the first magnetic layer, a second magnetic layer formed on the first exchange break layer, a second exchange break layer formed on the second magnetic layer, and a third magnetic layer formed on the second exchange break layer. The first magnetic layer has a first magnetic anisotropy energy, H_{k1} , the second magnetic layer has a second magnetic anisotropy energy, H_{k2} , and the third magnetic layer has a third magnetic anisotropy energy, H_{k3} . In some embodiments, $H_{k1}-H_{k2}$ is less than $H_{k2}-H_{k3}$. In some embodiments, the apparatus may be a perpendicular magnetic recording medium.

FIGURE 6