

HEXAGONAL CLOSE-PACKED CERAMIC SEEDLAYERS FOR PERPENDICULAR MAGNETIC RECORDING MEDIA

ABSTRACT

A magnetic recording medium is provided, comprising a substrate, a hexagonal close-packed seedlayer deposited over the substrate, a hexagonal close-packed underlayer deposited over the seedlayer, and a hexagonal close-packed recording layer deposited over the underlayer. The seedlayer is comprised of a ceramic. A method of manufacturing a magnetic recording medium is also provided, comprising the steps of sputtering a first sputter target to deposit a hexagonal close packed seedlayer over a substrate, sputtering a second sputter target to deposit a hexagonal close packed underlayer over the seedlayer, and sputtering a third target to deposit a hexagonal close-packed magnetic recording layer over the underlayer. The seedlayer comprises a ceramic.

FIG. 3