ABSTRACT

The present invention provides a longitudinal magnetic recording media having a substrate, a sputter deposited MgO seed layer, a Co or Co alloy based magnetic layer and an underlayer disposed between the seed layer and the magnetic layer comprised of Cr, a Cr alloy or a material having a B2 ordered crystalline structure, preferably NiAl or FeAl. A thin Cr or Cr alloy intermediate layer of about 1.0nm to 5.0nm thick may be positioned between the underlayer and the magnetic layer.

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