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(54) Title: HIGH AREAL DENSITY MAGNETIC RECORDING MEDIUM WITH DUAL MAGNETIC LAYERS

(57) Abstract

A magnetic recording medium having a high areal recording density of about 3 to about 20 Gb/in$^2$, an Mrt of about 0.30 to about 0.60 memu/cm$^2$, a coercivity greater than 2,500 Oersteds and a coercivity squareness of about 0.70 to about 0.95 is obtained by depositing one or more pairs of magnetic layers (32, 33, 35, 36) comprising a magnetically isotropic layer (33) directly on a magnetically anisotropic layer (32). Chromium intermediate layers (34) are employed to separate each pair of magnetically isotropic/anisotropic layers. In one embodiment, the magnetically anisotropic layer comprises a cobalt-based alloy containing chromium and tantalum and the magnetically isotropic layer comprises a cobalt-base layer containing chromium, platinum and tantalum.

