DISK TEXTURING METHOD FOR IMPROVED FEATURE ELEVATION UNIFORMITY

ABSTRACT OF THE INVENTION

A method for forming texture features in an intermediate layer of a magnetic disk, for example by incidence of laser radiation upon a selected layer of the magnetic disk, produces improved elevation uniformity when the target height for the features is approximately equal to the maximum feature height capability of the selected process. This invention teaches that this maximum feature height may be selected by proper choice of operating parameters. Thus, a first step is to determine feature heights produced by selected process parameters. Second, a target feature height is selected. Third, texture features are formed in a layer of the magnetic recording disk, such as a highly polished layer of NiP, by that process producing a maximum feature height at approximately the target height. Finally, subsequent layers of the recording disk are formed such that they carry forward the topography of the texture features.

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