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(54) Title: LASER TEXTURING OF MAGNETIC RECORDING MEDIUM USING MULTIPLE LENS FOCUSING

(57) Abstract

A magnetic recording medium is textured with a pulsed laser light beam through a multiple lens focusing system. The use of a multiple lens focusing system enables the formation of a plurality of relatively uniform protrusions smaller than those obtained with a single lens focusing system, thereby avoiding abrupt local profile changes. In an embodiment, the laser light beam is split, as by offsetting the lenses, to obtain a plurality of pairs of even smaller protrusions than obtained with a laser light beam having a centralized energy profile. The pulsed, multiple lens focused laser light beam can be used to texture a substrate, underlayer or magnetic layer. The resulting laser textured magnetic recording medium exhibits improved flying stability, glide performance and reliability.

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