APPARATUS FOR TEXTURING MAGNETIC DATA RECORDING DISC SURFACES

ABSTRACT OF THE DISCLOSURE

An apparatus for forming a textured zone in a predetermined surface area on a magnetic data recording disc, which is capable of precisely controlling the position and range of the texturing zone. Bumps 4 are formed on a CSS zone on the inner peripheral side of a magnetic recording disc 1 by the use of a spindle means 6 and a laser beam bombarding means 7. The spindle means 6 is provided with a chuck mechanism 13 with opposingly confronting tapered surfaces 18a and 21a to hold a disc 1 in a centered position in alignment with the rotational axis of a spindle shaft 10. On the other hand, the laser beam bombarding means 7 has part of component parts of its optical system, from a laser energy source 34 up to an electromagnetic shutter 39, mounted on its main casing 7a, and has a reflector mirror 40 and an objective lens 41 accommodated in a movable housing 31 which is movable in the direction of its optical axis to displace a laser spot position on the surface of the disc 1 in a radial direction thereof.

Fig. 1