

SPECIFICATION
DISC-SHAPED RECORD MEDIUM, METHOD FOR
MANUFACTURING THE SAME, AND APPARATUS FOR
MANUFACTURING THE SAME

ABSTRACT OF THE DISCLOSURE

The objective of the present invention is to prevent crosstalk between adjacent pregrooves, and to enable a manufacturing of a writable optical disc which has high storage density. In the present invention, a disc-shaped record medium in which pre-format addresses are written in its grooves for guiding a light beam is manufactured by conducting a simulation where, in order that the crosstalk caused by the coexistence of an arbitrary pre-format address with the other pre-format address adjacent to the arbitrary pre-format address in the inner and outer peripheral direction at the reading point of the arbitrary pre-format address, specific dummy information for timing adjustment is inserted beforehand between the pre-format address in the target frame and the pre-format address in the other frame next to the target frame. Based on the control signal for groove formation, a light beam with a predetermined intensity is caused to oscillate on the original disc in its inner and outer peripheral direction while the original disc is rotated at a predetermined linear velocity to define the pregrooves and lands on the original disc. As a result, the pre-format addresses are written in the grooves for guiding a light beam.

Fig. 2