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(54) Title: OPTICAL RECORD CARRIER AND METHOD FOR RECORDING AND REPRODUCING SIGNALS THEREFROM

(57) Abstract

An optical record carrier (RC and RC'), and methods and apparatuses for recording and reproducing an information on and from said optical recording carrier (RC and RC'), whereby the effects of crosstalk from adjacent tracks (TR) is reduced, and stable tracing control is possible, is achieved. A recording track (TR) to which information (Sm) divided into sector units (S) is recorded is formed in a spiral or concentric pattern on the surface of the optical record carrier (RC and RC'). Each sector further comprises sixty frames (FRf). Each frame (FR) comprises a re-sync pattern (RS), frame address (FA), data (INF), and postamble (PA) fields. Identification information (SA) indentifying the sector location of the information (INF) is recorded to the data block of the first frame (FR1). The user data (UDf) is recorded after the data (INF) is scrambled using a value (SR) generated by a fifteen-stage maximum-length sequence generator (603) based on the value of this identification information (SA). The correlation between signals on adjacent tracks (TR) is thus reduced, and the effects of crosstalk are randomized, thus reducing the effect on the track error signal and enabling extremely stable tracking control.

