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APPARATUS FOR RECORDING AND REPRODUCING INFORMATION

ABSTRACT OF THE DISCLOSURE

An optical disk having a diameter less than 140mm and, a thickness of 1.2mm ± 0.1mm, with a plurality of record tracks having data recorded thereon as embossed pits representing information and exhibiting a track pitch in the range between 0.646μm and 1.05μm; with the tracks being divided into a lead-in area, a program area and a lead-out area. The data includes table of contents (TOC) information recorded in a plurality of sectors in at least one TOC track and user information recorded in a plurality of sectors in user tracks; with the TOC information including addresses of start sectors recorded in the user tracks. The data (both user and TOC information) is encoded in a long distance error correction code having at least eight parity symbols, and is run length limited (RLL) modulated.

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