

ABSTRACT

**ADAPTIVE WRITING METHOD FOR HIGH-DENSITY OPTICAL
RECORDING APPARATUS AND CIRCUIT THEREOF**

An adaptive writing method for a high-density optical recording apparatus and a circuit thereof are provided. The circuit includes a discriminator for discriminating the magnitude of the present mark of the input data and the magnitudes of the leading and/or trailing spaces, a generator for controlling the waveform of the write pulse in accordance with the magnitude of the present mark of the input data and the magnitudes of the leading and/or trailing spaces to generate an adaptive write pulse, and a driver for driving the light source by converting the adaptive write pulse into a current signal in accordance with driving power levels for the respective channels. The widths of the first and/or last pulses of a write pulse waveform are varied in accordance with the magnitude of the present mark of input NRZI data and the magnitude of the leading and/or trailing spaces, thereby minimizing jitter to enhance system reliability and performance.

FIG. 2



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