MULTIPLEXED SIGNAL TRANSMISSION SYSTEM

ABSTRACT

A multiplexed signal transmission system according to the present invention has a transmission section which includes an input for receiving a group of square pulses having a fixed phase relation to each other, a first generator for generating edge pulse trains containing all edges extracted from the square pulses in the phase sequence, a second generator for generating edge attribute information representing an attribute of edge following after a prescribed edge in the same edge pulse train, a converter for converting a plurality of parallel data composing of the edge attribute information and mode information for controlling a system status into a serial data, an aligner for aligning the serial data corresponding to the edge pulses after the edge pulses, a third generator for generating a four-level signal having a reference signal level, a first level associated with clocks for the serial data, a second level associated with the serial data superposed on the clock,and a third level associated with the edge pulses and a fourth generator for generating a transmission multiplexed signal by frequency modulation of the four-level signal.

Figure 1