ACQUISITION OF HIGHLY VARIABLE DATA FREQUENCY BY DIGITAL EDGE PROCESSING

ABSTRACT

Disclosed is a digital edge processor frequency control for estimating the center frequency of a recorded signal having a known format, such as data recorded on a CLV optical disk (11) or on magnetic tape. The read channel (110) includes a sampling detector (116) which samples the recorded signal at a known rate to provide edge position signals (PAT) indicating the location of recorded pulse edges. An edge pattern identifier detects whether the edge signals (PAT) of the recording signal match a predetermined element of the known format.

Fig. 3