

EQUALIZATION METHOD AND APPARATUS WITH GAIN ADJUSTMENT
FOR DIRECT ACCESS STORAGE DEVICE (DASD) DATA CHANNELS

ABSTRACT

An equalization method and apparatus with gain adjustment are provided for a direct access storage device (DASD) data channel (100). A direction for moving each of a plurality of tap weights is calculated. New tap weights are determined for each of a plurality of tap weights in the direction. A gain of the FIR filter (106) for the new tap weights is compared with a set threshold gain value. A gain of a gain loop of the data channel (100) is incrementally adjusted responsive to the compared gain and set threshold gain values. A phase lag of the FIR (106) filter for the new tap weights is compared with a set threshold phase lag value. A phase of a timing loop of the data channel (100) is incrementally adjusted responsive to the compared phase lag and set threshold phase lag values.

FIG 1