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(54) Title: APPARATUS FOR COMPENSATING FOR NON-LINEAR CHARACTERISTICS OF MAGNETORESISTIVE HEADS

(57) Abstract

An apparatus that compensates for the asymmetry and the baseline shift in the signal generated by a magnetoresistive head. The apparatus stores a first correction factor for the baseline shift, a second correction factor for correcting the amplitude of positive portion of the signal and a third correction factor for correcting the amplitude of negative portion of the signal. The first correction factor for correcting for baseline shift is added to the signal generated by the magnetoresistive head to generate a baseline corrected signal. The baseline corrected signal is then monitored for positive and negative excursion from the baseline and the positive excursions are multiplied by the second correction factor and the negative excursions are multiplied by the third correction factor for generating a compensated signal.