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(54) Title: ASYMMETRY COMPENSATION FOR MAGNETORESISTIVE SENSOR

(57) Abstract: A magneto-resistive asymmetry compensation system includes a linearizer interposed in a data path and a control loop. The control loop uses signal estimates from an interpolated timing response unit to derive a magneto-resistive asymmetry error. The error term is used to obtain a control scaling input to the linearizer. The linearizer functions to multiply the scaling multiple to the square of the input signal and then add it back to the input signal.