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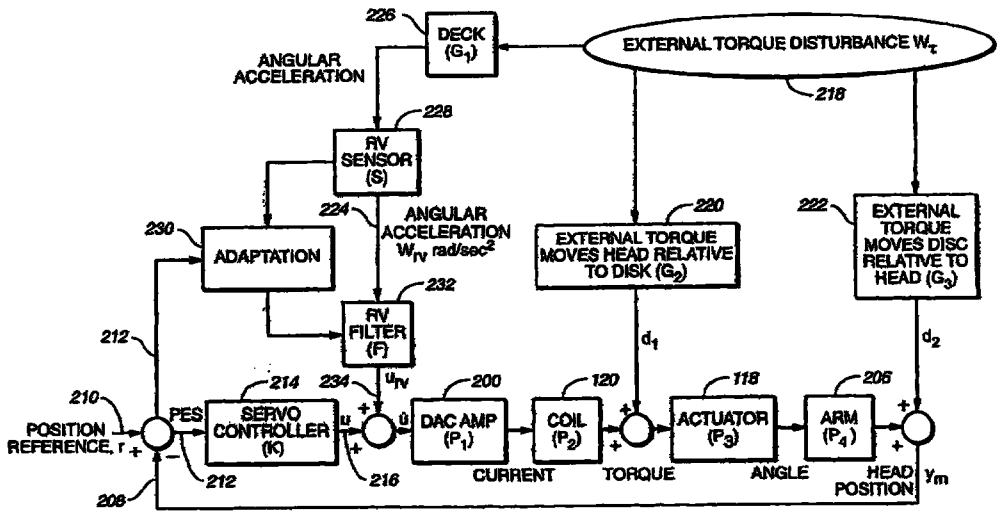
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(54) Title: DISTURBANCE REJECTION FOR DISC DRIVES USING ADAPTIVE ACCELEROMETER FEEDFORWARD SERVO



(57) Abstract: A system and method for attenuating the effect of rotational vibration on the positioning of the read/write head (116) in a disc drive (110). The rotational acceleration of the disc drive body (110) is sensed and applied to an adaptive filter (230, 232) that produces a feedforward signal (234) designed to offset the effects of the rotational vibration. The adaptive filter (230, 232) adjusts its parameters based on the rotational acceleration signal (224), the position error signal of the servo system (212), and a transfer function relating the actual position signal (208) to the feedforward signal (234). The plant estimate of the transfer function relating the actual position signal to the feedforward signal is determined off-line and stored for use by the adaptive filter (230, 232) in adjusting its parameters during operation.

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