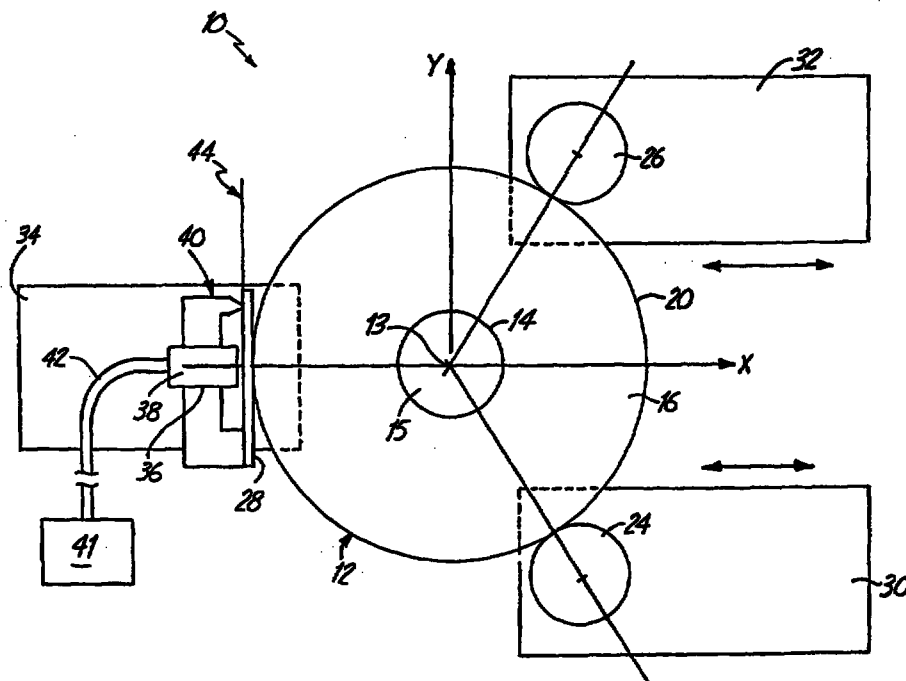




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(71) Applicant: PEMSTAR, INC. [US/US]; 2535 Technology Drive, Rochester, MN 55901 (US).			
(72) Inventors: BOWEN, Arlen, John; 3114 Knoll Lane NW, Rochester, MN 55901 (US). CRAFT, Dale, Gregory; 4109 Third Street NW, Rochester, MN 55901 (US). WHEELER, Michael, Earl; 60661 231 Avenue, Mantorville, MN 55955 (US). AHMANN, Robert, Duane; 3116 Golfview Lane SW, Rochester, MN 55902 (US).			
(74) Agents: JOHNSON, Grant, A. et al.; Dorsey & Whitney LLP, Pillsbury Center South, 220 South Sixth Street, Minneapolis, MN 55402-1498 (US).			
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(54) Title: METHOD AND APPARATUS FOR BALANCING A SPINDLE IN A HARD DISK DRIVE



(57) Abstract

An apparatus for balancing and centering a disk comprising a sensor that produces a signal indicative of the disk's deviation from a desired dimension and a movable reference surface that moves the disk in response to the signal from the sensor. The apparatus may include a microprocessor connected to a balance analyzer. Feedback from the balance analyzer can be used to compensate for setup errors, thermal drift, and tool wear.