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(71) Applicant: SEAGATE TECHNOLOGY LLC [US/US]; 920 Disc Drive, Scotts Valley, CA 95066 (US).

(72) Inventors: TRAVIS, E., Ell; 1421 Sunnybrook Lane, Oklahoma City, OK 73128 (US). MORRIS, John, C.; 5045 Oliver Avenue South, Minneapolis, MN 55419 (US). RESH, Roger, A.; 14594 Carriage Lane, Prior Lake, MN 55372 (US).

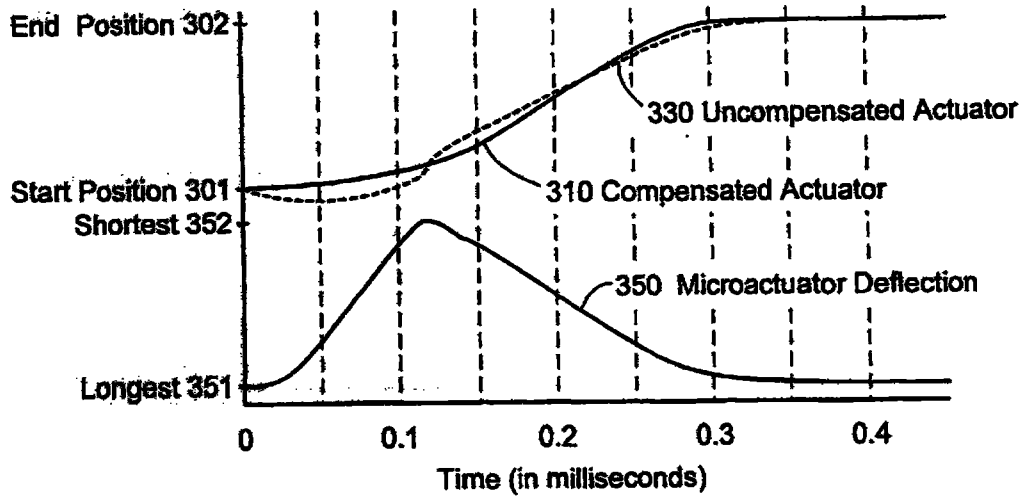
(74) Agent: OLSON, Jonathan, E.; Seagate Technology LLC, Intellectual Property Dept. - COL2LGL, 389 Disc Drive, Longmont, CO 80503 (US).

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(54) Title: MICROACTUATOR-INDUCED REACTIVE FORCES FOR FINE POSITIONING A SENSOR



(57) Abstract: Piezoelectric elements or similar microactuators perform fine positioning in a system including at least two masses bendably coupled to a larger body. A servo controller receives a position signal from a sensor on the first mass, from which it generates a signal to control microactuators coupling other masses to the body. The movement of the other masses thereby exerts a controlled reactive force upon the body and upon the first mass. Examples include disc drive systems in which the reactive forces are used to counteract one or more unwanted excitations in an actuator body or actuator arm.

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