

IMPROVED DISC DRIVE ACTUATOR LATCH SYSTEM
FOR HIGH ROTATIONAL SHOCK

Abstract of the Disclosure

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There is provided an inertial latching system which includes a first latch member configured to engage a second latch member at a junction point. The first latch member includes a latch pivot mounted to the base. One side of the latch pivot extends to form a first arm whilst a balancing mass is found at another side of the latch pivot. Joined to the first arm is a finger which provides a contact line ending in a proximal point. The second latch member has a contact surface which provides a contact point. The inertial latching system is configured such that the ratio of a first length to a second length is smaller than the ratio of a third length to a fourth length. The first length is defined as the distance from the proximal point to the junction point, the second length is defined as the distance from the proximal point to the latch pivot, the third length is defined as the distance from the contact point to the junction point, and the fourth length is defined as a distance from the contact point to the actuator pivot.

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FIG. 1