Title (en)

DUAL POSITION LINEAR DISPLACEMENT MICROMECHANISM

Title (de)

DOPPELPOSITIONS-LINEARAUSLENKUNGSMIKROMECHANISMUS

Title (fr)

MICROMECANISME DE DEPLACEMENT LINEAIRE A DOUBLE POSITION

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Application

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Abstract (en)

[origin: WO0223606A1] An apparatus (1) that is capable of a first stable configuration and a second stable configuration is disclosed. The bistable mechanism (10) has a leg (30, 32) that is coupled on one end by a base member (22, 24) and on the other end by a shuttle (20). The leg (30, 32) stores potential energy as it is deflected. The potential energy stored in the leg (30, 32) has a maximum potential energy position with a low potential energy position on either side of the maximum. An apparatus and method are also disclosed for a latching mechanism (910) and the associated method. The latching mechanism (910) is comprised of a grasping member (932), a lock slider (928), and a detent slider (916). These three members (916, 928, 932) operate together to induce a locked configuration and an unlocked configuration by actuating the lock slider (928) in a single direction.

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