

Title (en)
ELECTROMAGNETIC ACTUATING DEVICE WHICH IS MONOSTABLE IN THE CURRENTLESS STATE AND USE OF SUCH AN ACTUATING DEVICE

Title (de)
STROMLOS MONOSTABILE ELEKTROMAGNETISCHE STELLVORRICHTUNG UND VERWENDUNG EINER SOLCHEN

Title (fr)
DISPOSITIF DE RÉGLAGE ÉLECTROMAGNÉTIQUE MONOSTABLE SANS COURANT ET UTILISATION D'UN TEL DISPOSITIF

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Application
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Priority
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Abstract (en)
[origin: WO2017178241A1] The invention relates to an electromagnetic actuating device which is monostable in the currentless state and has an armature unit (12) which has a permanent magnetic means (16) and which can move along a movement longitudinal axis (10) between at least two actuation positions relative to stationary coil means (28, 50, 36) and in reaction to energisation thereof, which armature unit (12) has an engagement section (26) for interacting with a plunger section (22) which provides an actuation partner and which armature unit (12) can be moved from a first of the actuation positions, which is stable in the currentless state as result of an effect of the permanent magnetic means, into a second of the actuation positions counter to a restoring force of force storage means (44), in particular spring means, wherein the coil means have a first coil unit (28) which is or can be connected in order to bring about a force which acts on the armature unit and which releases the armature unit from the first actuation position, wherein the coil means have a second coil unit (36) which is provided in addition to the first coil unit and is connected or can be connected in such a way that during the movement the second coil unit applies to the armature unit a force which accelerates the armature unit, and wherein the coil means have restoring coil means (50; 28, 36) which are embodied and/or connected in such a way that when the armature unit is returned from the second actuation position into the first actuation position said restoring coil means (50; 28, 36) boost the restoring force of the force storage means.

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