Title (en)
ELECTRIC MOTOR ACTUATING DRIVE

Title (de)
ELEKTROMOTORISCHER STELLTRIEB

Title (fr)
MECANISME DE COMMANDE ELECTROMOTORISE

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Application
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Abstract (en)
[origin: WO2008028503A1] An electric motor actuating drive for actuating elements which can pivot, for example flaps, valves or the like, and is in the form of a spring return, is intended to be designed such that no movement of the actuating element and return of the drive train is possible when an external force acts on the actuating element, and therefore also on the output drive element (22) of the drive train. According to the invention, the actuating drive (10) is designed such that the drive train, which is formed from spur gears (24), is not self-locking, and such that a braking spring (25) is operatively connected to a gearbox stage upstream of the output-drive element (22) of the drive train, such that, when the drive motor is disconnected, the actuating element is effectively prevented from being moved even when attempts are made to move it by external force or by extreme force. Furthermore, the actuating drive (10) is in the form of a spring return and is equipped with a drive spring (30) which is arranged such that the load on it is removed in the event of electrical power failure, and it therefore acts as a drive element. Furthermore, it is important for a compact design that the electrical components are arranged in an end-face housing wall. This housing wall is located opposite the output-drive element of the drive train. The actuating drive (10) according to the invention can be used in particular for heating, air-conditioning and ventilation technology.

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