

Title (en)  
ELECTROMECHANICAL ACTUATOR WITH SELF-REGULATED CONTROL

Title (de)  
ELEKTROMECHANISCHES STELLGLIED MIT SELBSTREGULIERTER STEUERUNG

Title (fr)  
ACTIONNEUR ELECTROMECHANIQUE A COMMANDE AUTOREGULEE

Publication  
**EP 3764384 B1 20220831 (FR)**

Application  
**EP 20184103 A 20200704**

Priority  
FR 1907594 A 20190708

Abstract (en)  
[origin: CN112201538A] The invention relates to an electromechanical actuator comprising a control coil (5), a magnetic core (2) and a movable armature (3) which can be moved between an operating state and a rest state and which is returned to the rest state by means of an elastic return device (9). When the movable armature conducts a magnetic field generated by the powered coil, the movable armature is attracted by the magnetic core. Part of the leakage magnetic flux near the movable armature (3) passes through a Hall effect sensor (101) which drives a switch (102) connected in series with the control coil (5) so as to disconnect the power supply of the control coil (5) when the leakage magnetic flux exceeds a high threshold value and to supply power to the control coil (5) again when the leakage magnetic flux is less than a low threshold value. Thus, the average value of the supply voltage of the control coil (5) is adjusted by preferably being exactly sufficient to maintain the electromechanical actuator in the operating state.

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