

Title (en)
ELECTROMAGNETIC ROTATING ACTUATOR.

Title (de)
ELEKTROMAGNETISCHER DREHSTELLER.

Title (fr)
ACTUATEUR ROTATIF ELECTROMAGNETIQUE.

Publication
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Application
EP 90911280 A 19900803

Priority
DE 3926911 A 19890816

Abstract (en)
[origin: WO9103062A1] The aim of the invention is to simplify a rotating actuator (1) with a magnetic reset element (18), in particular for controlling the cross-section of a choke, and to improve the torque profile of the reset element (18). To this end, the reset element (18) is made of ferromagnetic material and arranged in the region of the permanent magnet segments (10) of the servomotor (2). The reset element (18) is asymmetrical, with three short arms (22 to 24) and a longer arm (5). In consequence, the maximum torque produced by the element (18) is reduced and the reset angle from which the element (18) returns to its desired locking position is increased. The rotating actuator (1) is particularly suitable as an idling rotating actuator in internal combustion engines.

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H01F 7/14

IPC 8 full level
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F02D 9/16 (2013.01 - EP US); **H01F 7/14** (2013.01 - KR); **H01F 7/145** (2013.01 - EP US)

Citation (examination)

- Japanisches Gebrauchsmuster 60-88044
- Patent Abstracts of Japan, Vol. 9, No. 110 (E-314)(1833), 15.05.1985, & JP-A-60 2064
- Patent Abstracts of Japan, Vo. 5, No. 145 (E-74)(817), 12.09.1981, & JP-A-56 79410

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WO 9103062 A1 19910307; AU 3530993 A 19930729; AU 6052790 A 19910403; AU 638266 B2 19930624; AU 648461 B2 19940421; BR 9007594 A 19920630; DE 3926911 A1 19910221; DE 59004952 D1 19940414; EP 0487552 A1 19920603; EP 0487552 B1 19940309; ES 2051021 T3 19940601; HU 208759 B 19931228; HU 9200457 D0 19920428; HU T60565 A 19920928; JP 2801397 B2 19980921; JP H04507327 A 19921217; KR 0171904 B1 19990501; KR 920704320 A 19921219; US 5402022 A 19950328

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