

Title (en)
ROTATING ACTUATOR

Title (de)
DREHSTELLER

Title (fr)
ACTIONNEUR ROTATIF

Publication
EP 0609408 B1 19961120 (DE)

Application
EP 93915687 A 19930805

Priority
• DE 4227951 A 19920822
• DE 9300687 W 19930805

Abstract (en)
[origin: DE4227951A1] In a rotating actuator, especially with the use of plastic intake pipes and connections, noise is produced as a result of turbulence which should be prevented. To this end there are plane boundary surfaces (25) at the throttle aperture (13) and another (26) at the outlet aperture (14). In addition, there are in the intake stub flow-assisting transitions with a convex and a concave region (40, 41) of a truncated conical taper (24) towards the boundary surfaces (25) and in the outlet stub (6) there is a flow-assisting transition with a convex and concave region (42, 43) towards the truncated conical broadening (27) of the outlet stub (6). The rotating actuator is especially usefull to control the idling speed of internal combustion engines.

IPC 1-7
F02M 3/06

IPC 8 full level
F02M 3/06 (2006.01); **F02D 9/10** (2006.01); **F02D 9/16** (2006.01); **F02M 3/07** (2006.01); **F02M 69/32** (2006.01); **F16K 3/22** (2006.01); **F16K 31/04** (2006.01)

CPC (source: EP US)
F02D 9/16 (2013.01 - EP US); **F02M 3/07** (2013.01 - EP US); **F02M 2003/067** (2013.01 - EP US)

Cited by
CN103917772A

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 4227951 A1 19940224; DE 59304542 D1 19970102; EP 0609408 A1 19940810; EP 0609408 B1 19961120; JP H07500658 A 19950119; US 5476246 A 19951219; WO 9404811 A1 19940303

DOCDB simple family (application)
DE 4227951 A 19920822; DE 59304542 T 19930805; DE 9300687 W 19930805; EP 93915687 A 19930805; JP 50574894 A 19930805; US 21112694 A 19940420