

Title (en)

SEALING ARRANGEMENT FOR A CONTROL DEVICE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

DICHTUNGSANORDNUNG FÜR EINE REGELVORRICHTUNG EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)

ENSEMBLE D'ÉTANCHÉITÉ POUR UN DISPOSITIF DE RÉGLAGE D'UN MOTEUR À COMBUSTION INTERNE

Publication

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Application

EP 10800918 A 20101217

Priority

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Abstract (en)

[origin: WO2011091909A1] Sealing devices for control devices are known, having a housing (2), a channel (4) designed in the housing (2) and through which gas flows, a control member (6), by means of which a gas flow in the channel (4) can be controlled, a shaft (8), on which the control member (6) is arranged, and bearings (12), by means of which the shaft (8) is mounted in bearing bores (10) in the housing (2). In order to form a seal, a vent bore (14) is provided, which extends in the housing (2) from an inner wall (16) of the channel (4) on an inlet side of the control member (6) to a rear face (18), facing out from the channel (4), of the bearing (12) arranged in the housing (2), and into the bearing bore (10). This serves to avoid a leakage flow along the shaft (8). Nevertheless, the seal effect of such an arrangement is not satisfactory and is complex in design. According to the invention, viewed from the channel (4), behind the bearing (12), a circumferential groove (30) is designed on the shaft (8), wherein said circumferential groove is enclosed radially by a sealing means (22; 34) interacting with the groove (30). This improves the seal effect and assembly is simple.

IPC 8 full level

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CPC (source: EP US)

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