

Title (en)

CONCENTRIC PNEUMATIC CLUTCH ACTUATOR AND IMPROVEMENTS THEREOF

Title (de)

KONZENTRISCHER PNEUMATISCHER KUPPLUNGSAKTUATOR UND VERBESSERUNGEN DAVON

Title (fr)

ACTIONNEUR D'EMBRAYAGE PNEUMATIQUE CONCENTRIQUE ET SES AMÉLIORATIONS

Publication

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Application

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Abstract (en)

[origin: WO2021047747A1] The invention relates to a clutch actuator (100) comprising: a housing (10) axis (30), having a recess (12), a piston (20) arranged in the recess (12) and configured to move along an axis (30) between an uncoupled position and a coupled position, when actuated by an actuation force, a clutch release bearing carrier (42), operatively coupled to the piston (20), a clutch release bearing (44) mounted to the clutch release bearing carrier (42), wherein the clutch release bearing (44) has a outer bearing ring (46) configured to rotate in relation to the axis (30), wherein the outer bearing ring (46) has a contact surface for being engaged by a clutch spring (50) when the piston (20) is actuated by the actuation force. The object of the invention is achieved in that the actuator comprises a fixation member (60) operatively coupled to the clutch release bearing carrier (42) and the clutch release bearing (44), by clamping the inner bearing ring (47) the fixation member (60) being configured to prevent axial movement of the clutch release bearing (44) and to enable a radial movement of the clutch release bearing (44) relative to the axis (30) within a specific force. The object is further achieved in a second aspect by a clutch assembly (100).

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