

Title (en)  
ADJUSTABLE-LENGTH CONNECTING ROD, RECIPROCATING PISTON ENGINE, AND VEHICLE

Title (de)  
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Title (fr)  
BIELLE À LONGUEUR RÉGLABLE, MOTEUR À PISTONS ALTERNATIFS ET VÉHICULE

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Abstract (en)  
[origin: WO2019213683A1] The invention relates to an adjustable-length connecting rod for a reciprocating piston engine, to a reciprocating piston engine and to a vehicle, wherein an effective connecting rod length of the connecting rod can be changed, and the connecting rod has a hydraulic length adjustment device which has a hydraulic working chamber, a hydraulic duct (11B), a valve recess with a valve recess longitudinal axis (L2), and a valve device (14B) which is arranged in the valve recess and has a valve chamber (31B), wherein the valve device (14B) is configured for opening and/or shutting of a hydraulic medium outflow from the hydraulic working chamber, and wherein the hydraulic duct (11B) opens into the valve recess at an orifice opening in an inner wall section (27B) of the valve recess. Here, the valve device (14B) has at least one closed outer wall section (25B) which lies opposite the orifice opening and surrounds the valve chamber (31B) of the valve device (14B) at least partially, wherein the outer wall section (25B) of closed configuration of the valve device (14B) configures a flow duct together with that inner wall section (27B) of the valve recess which surrounds the orifice opening, wherein the flow duct is configured to divert hydraulic medium, which exits from the hydraulic duct (11B) with a first flow direction (S1) and enters into the valve recess, at least partially in a second flow direction (S2) which is different from the first flow direction before the entry into the valve chamber (31B) of the valve device (14B).

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