

Title (en)  
ELECTROHYDROSTATIC ACTUATOR SYSTEM WITH AN EXPANSION RESERVOIR

Title (de)  
ELEKTROHYDROSTATISCHES AKTUATORSYSTEM MIT NACHSAUGBEHÄLTER

Title (fr)  
SYSTÈME ACTIONNEUR ÉLECTROHYDROSTATIQUE À RÉSERVOIR D'ASPIRATION

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Application  
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Abstract (en)  
[origin: WO2020035398A1] An electrohydrostatic actuator system comprising: a volume- and/or speed-variable hydraulic machine which is driven by an electric motor, for providing a volumetric flow of a hydraulic fluid; a differential cylinder with a piston side and a ring side, and at least one pretensioning source. The actuator system has a closed hydraulic circuit, wherein, during operation, the hydraulic fluid in the hydraulic circuit is pressurized by means of the hydraulic machine and/or the pretensioning source. Furthermore, according to the invention, the differential cylinder provides a power motion operating mode and a rapid motion operating mode. In order to balance a volume of the hydraulic fluid in the closed hydraulic circuit, according to the invention an expansion reservoir is connected to the piston side of the differential cylinder via a valve.

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