

Title (en)  
OSCILLATING ARMATURE PUMP HAVING AN ELECTROMAGNETIC DRIVE

Title (de)  
SCHWINGANKERPUMPE MIT ELEKTROMAGNETISCHEM ANTRIEB

Title (fr)  
POMPE A ARMATURE OSCILLANTE A ENTRAINEMENT ELECTROMAGNETIQUE

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Application  
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Abstract (en)  
[origin: WO2007014696A1] The invention relates to an oscillating armature pump having an electromagnetic drive, in particular having a solar drive, wherein a ferromagnetic piston is arranged in an axially displaceable manner in a cylindrical interior space. A coil voltage applied to an outer coil generates drive forces for the piston, wherein a flow path which can be blocked in one flow direction by means of a non-return valve is arranged in the piston and a second non-return valve is arranged at a feed-side pump outlet. According to the invention, a hollow piston (6, 23) is arranged in a non-magnetic housing tube (1, 21), at least one coil-shaped wire winding (5) is wound around the housing tube (1, 21), and the hollow piston (6, 23) has sealing rings (15, 16) which are spaced apart from one another axially.

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