

Title (en)
ELECTROMAGNETIC SHOCK PUMP

Title (de)
ELEKTROMAGNETISCHE STOSSPUMPE

Title (fr)
POMPE DE CHOC ÉLECTROMAGNÉTIQUE

Publication
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Application
EP 16854761 A 20160614

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Abstract (en)
An electromagnetic shock pump, comprising: a valve body (11), provided with a center hole; a pressure relief valve, provided within the center hole; a piston (13), comprising a piston head (131) provided within the center hole, an end of the free end of the piston head (131) is provided with a sealing member (23), wherein the sealing member (23) presses against a hole wall of the center hole, and the sealing member (23) is able of moving along an axial direction of the center hole in a synchronized manner with the piston head (131); a water-sucking valve, provided on the piston head (131), and provided opposite to the pressure relief valve; wherein, the pressure relief valve, the valve body (11), the piston head (131), the sealing member (23) and the water-sucking valve form a sealed space (99). The pressure relief valve and the water-sucking valve are not in direct contact. Thereby, the positioning requirements of the pressure relief valve relative to the water-sucking valve are low, and as a result the electromagnetic shock pump will not undergo failure caused by inaccurate positioning of the pressure relief valve relative to the water-sucking valve, thereby ensuring effectiveness of the electromagnetic shock pump and reducing the rate of maintenance.

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