

Title (en)  
ELECTRIC SUBMERSIBLE VIBRATION PUMP

Title (de)  
ELEKTRISCHE TAUCHVIBRATIONSPUMPE

Title (fr)  
POMPE À VIBRATION SUBMERSIBLE ÉLECTRIQUE

Publication  
**EP 3906365 A1 20211110 (EN)**

Application  
**EP 19924775 A 20191106**

Priority  
• RU 2019111942 A 20190419  
• RU 2019000791 W 20191106

Abstract (en)  
[origin: WO2020214056A1] Electric vibration pump has an electromagnet (1), consisting of a core (15) and a winding (16), a vibrator with an armature (2) and a rod (3), and a pump with a housing (11) and a piston (8), while the armature (2) of the vibrator is connected with the core (15) of the electromagnet (1) on one side and with the rod (3) on the other side, on which a shock absorber (4) is fixed, a diaphragm (6) is mounted and a pump piston (8) is set, located in the operating chamber (33) of the pump housing (11). The pump housing (11) is made with channels (30, 31) for connecting the operating chamber (33) to the discharge cavity (32) of the pump, equipped with a built-in check valve (9) and with arc-shaped filtering meshes (12) covering the pump housing (11) along the perimeter of the fluid being pumped from the well, installed to form a flowing volume (18) of purified liquid connected through the check valve (9) with the operating chamber (33) for alternating connection or disconnection.

IPC 8 full level  
**F04F 7/00** (2006.01)

CPC (source: EP)  
**F04B 15/02** (2013.01); **F04B 17/044** (2013.01); **F04B 47/06** (2013.01); **F04B 53/20** (2013.01)

Cited by  
CN115289054A

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020214056 A1 20201022**; EA 202100190 A1 20220208; EP 3906365 A1 20211110; EP 3906365 A4 20220216

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**RU 2019000791 W 20191106**; EA 202100190 A 20191106; EP 19924775 A 20191106