

Title (en)
VIBRATION PUMP

Title (de)
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Title (fr)
POMPE À VIBRATIONS

Publication
EP 3759347 A1 20210106 (EN)

Application
EP 19711715 A 20190227

Priority
• IT 201800003064 A 20180227
• IB 2019051555 W 20190227

Abstract (en)
[origin: WO2019166954A1] The pump comprises: a piston (2) at least partially made of ferromagnetic material; and a hollow body (6) configured for being crossed by a flow of fluid and comprising a work chamber (7) in which the piston (2) can reciprocate in a guided manner. The piston (2) defines in the work chamber (7) an inlet chamber (36) and a compensation chamber (38) intended for being crossed by the fluid. The inner surface of the work chamber (7) has at least one recess (42) defining at least one communication duct that fluidically connects the inlet chamber (36) and the compensation chamber (38). There is also a solenoid (4) arranged around the hollow body (6) and configured for actuating the piston (2) electromagnetically. Two ferromagnetic elements (5, 5') are arranged around the hollow body (6) and positioned transversally between the solenoid (4) and the hollow body (6). The ferromagnetic elements (5, 5') are laterally spaced apart and define at least one perimetrical interruption (G, G') in between. The recess (42) is located in a respective perimetrical interruption (G, G') and is laterally delimited by the perimetrical interruption (G, G').

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
See references of WO 2019166954A1

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