

Title (en)
SELF-PRIMING PUMP

Title (de)
SELBSTANSAUGENDE PUMPE

Title (fr)
POMPE AUTO-AMORÇANTE

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Application
EP 21835631 A 20211203

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Abstract (en)
[origin: WO2022128545A1] The invention relates to a pump comprising a pump impeller (5) configured so that, during operation, the axis of the pump impeller (5) is vertical with an impeller inlet (10) disposed above an impeller outlet (11), the pump comprising a toroidal liquid reservoir (1) around the pump impeller (5) and a connection means (8) for connecting the liquid reservoir (1) to the pump impeller (5), at a connection point (9). The connection point (9) is positioned below the impeller inlet (10) so as to form a siphon, and the fluid passage cross-section (15) in the connection means (8) increases in the direction of circulation of the liquid in the pump. The invention also relates to a turbogenerator and a closed circuit comprising such a pump, as well as to the use of the closed circuit in a vehicle.

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