

Title (en)  
PUMPED STORAGE POWERPLANT

Title (de)  
PUMPSPEICHERKRAFTWERK

Title (fr)  
GÉNÉRATEUR HYDROÉLECTRIQUE D'ACCUMULATION PAR POMPAGE

Publication  
**EP 2724017 A1 20140430 (DE)**

Application  
**EP 12729581 A 20120621**

Priority  

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Abstract (en)  
[origin: WO2013000809A1] The invention relates to a pumped-storage power plant, comprising a first reservoir (501), a second reservoir (H3), a flow path for a liquid, which flow path connects the first reservoir (501) to the second reservoir (H3) and within which a mechanically driven generator (504) of electrical energy is arranged. According to the invention, the first reservoir (501) is composed of a body of water (R1), the second reservoir (H3) is composed of a cavity (502) arranged in or at the body of water (R1), wherein the cavity (502) is arranged at such a depth of the body of water (R1) that a pressure (P1) acting on the cavity (502) due to the body of water (R1) is greater than a pressure (P2) in the cavity (502), and the mechanically driven generator (504) of electrical energy is arranged in the flow path in such a way that the mechanically driven generator of electrical energy either separates the body of water (R1) from the cavity (502) in a pressure-tight manner or releases a passage direction from the body of water (R1) to the cavity (502), wherein the cavity (502) comprises a device by means of which water that has flowed into the cavity (502) can be transferred back into the body of water (R1).

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