

Title (en)
INTERMEDIATE POWER STORE FOR POWER GENERATING SYSTEMS

Title (de)
ENERGIEZWISCHENSPEICHER FÜR STROMERZEUGUNGSANLAGEN

Title (fr)
RÉSERVOIR INTERMÉDIAIRE D'ÉNERGIE POUR INSTALLATIONS DE PRODUCTION D'ÉLECTRICITÉ

Publication
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Application
EP 22718084 A 20220321

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Abstract (en)
[origin: WO2022200288A1] The invention relates to an intermediate power store for at least one power generating system (50), comprising: an osmosis device (110), a permeate store (120), a concentrate store (130) and a control device (140). The osmosis device (110) is designed to separate, in a charging operation, a liquid mixture (10) with a charging pressure (P1) into a permeate (20) and a concentrate (30), or, in a discharging operation, to mix the permeate (20) with the concentrate (30) while applying an osmotic pressure to the liquid mixture (10). The permeate store (120) is fluidically connected to the osmosis device (110) and is designed to store the permeate (20). The concentrate store (130) is fluidically connected to the osmosis device (110) and is designed to store the concentrate (30). The control device (140) is designed to control the following functions: the charging operation using electrical power from the at least one power generating system (50), or the discharging operation while providing electrical power.

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