

Title (en)

POWER PLANT FOR GENERATING ELECTRIC POWER AND A METHOD FOR OPERATING A POWER PLANT

Title (de)

KRAFTWERK ZUM ERZEUGEN VON ELEKTRISCHER ENERGIE UND VERFAHREN ZUM BETREIBEN EINES KRAFTWERKS

Title (fr)

CENTRALE DE PRODUCTION D'ÉLECTRICITÉ ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

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Application

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Priority

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Abstract (en)

[origin: CA3057239A1] The invention relates to a power plant for generating electrical energy, comprising at least one heat storage device (100) for storing electrical energy as heat energy, comprising: an electric heater (10) for converting electrical energy into heat energy; a heat storage body (30, 31) for receiving and storing heat energy of the electric heater (10); and a heat exchanger (50) for absorbing heat energy from the heat storage body (30, 31). The power plant also comprises a turbine (120) and a generator (123). A heat storage fluid circuit (130) is connected to the heat exchanger (50) or the heat exchangers (50) and a working fluid circuit (140) is connected to the turbine (120). A fluid circuit heat exchanger (131) transfers heat from the heat storage fluid to a working fluid in the working fluid circuit (140).

IPC 8 full level

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