

Title (en)

ELECTRICITY GENERATION DEVICE WITH SEVERAL HEAT PUMPS IN SERIES

Title (de)

ELEKTRIZITÄT SERZEUGUNGSVORRICHTUNG MIT MEHREREN WÄRMEPUMPEN IN REIHE

Title (fr)

DISPOSITIF DE PRODUCTION D'ÉLECTRICITÉ AVEC PLUSIEURS POMPES À CHALEUR EN SÉRIE

Publication

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Application

EP 09805750 A 20091218

Priority

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Abstract (en)

[origin: WO2010070242A2] The invention relates to an electricity generation device (1) which includes: - a first heat pump (3) provided with a first closed circuit (15) containing a first heat transfer fluid, and a first heat exchanger (17) between the first heat transfer fluid and a flow of atmospheric air, in which the flow of atmospheric air transfers an amount of heat to the first heat transfer fluid, - at least one second heat pump (5) provided with a second closed circuit (23) containing a second heat transfer fluid, and a second heat exchanger (25) between the second heat transfer fluid and a third heat transfer fluid, in which the second heat transfer fluid transfers an amount of heat to the third heat transfer fluid; - means for transferring an amount of heat from the first heat transfer fluid to the second heat transfer fluid; - a third closed circuit (9) containing the third heat transfer fluid; - a turbine (11) inserted in the third closed circuit (9) and driven by the third heat transfer fluid; - an electricity generator (13) mechanically driven by the turbine (11).

IPC 8 full level

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