

Title (en)

Methods for cooling a carrier fluid of a solar power plant and solar power plant

Title (de)

Verfahren zum Kühlen einer Trägerflüssigkeit eines solaren Kraftwerks sowie solares Kraftwerk

Title (fr)

Procédés de refroidissement d'un fluide transporteur d'une centrale solaire et centrale solaire

Publication

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Application

EP 10188875 A 20101026

Priority

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Abstract (en)

[origin: EP2447479A1] The invention concerns a method for cooling a carrier fluid (5), which carrier fluid (5) is used to drive a turbine (29) in an electric power plant (2'). According to a first embodiment of the invention at least part of a cooling process is realized by leading the carrier fluid (5) and/or a cooling fluid (13, 46) for cooling the carrier fluid (5) underground a soil to a depth (41) in which the soil is substantially cooler than the ambient air. According to a second embodiment of the invention at least part of a cooling process is realized by supplying at least some of the carrier fluid (5), and/or at least some of a cooling fluid (13) used to cool the carrier fluid (5), from a cold storage (51) which stores fluid at a significantly lower temperature than the temperature of the carrier fluid (5) in the turbine (29). The invention also concerns electric power plants (2') and a cooling system (4) operating according to the embodiments of these methods.

IPC 8 full level

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Citation (examination)

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DOCDB simple family (publication)

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