

Title (en)

METHOD AND SYSTEM FOR THE UTILIZATION OF AN ENERGY SOURCE OF RELATIVELY LOW TEMPERATURE

Title (de)

VERFAHREN UND SYSTEM ZUR VERWENDUNG EINER ENERGIEQUELLE MIT RELATIV NIEDRIGER TEMPERATUR

Title (fr)

PROCÉDÉ ET SYSTÈME D'UTILISATION D'UNE SOURCE D'ÉNERGIE À TEMPÉRATURE RELATIVEMENT BASSE

Publication

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Application

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Abstract (en)

[origin: WO2012049259A1] A method of extracting energy from an external heat source. The method comprises the steps of: a) compressing a medium in the liquid phase using an external power source to obtain a compressed liquid medium; b) heating the compressed liquid medium from step a) using heat at least partly derived from the external heat source to expand the medium and obtain it in the supercritical state; c) reducing the pressure of the heated medium from step b) to a controlled degree by applying a variable load to generate electric power of a frequency; d) converting the frequency of step c) to a desired output frequency; and e) reducing the temperature and volume of the medium from step c) to obtain the medium in the liquid phase for recycling to step a), wherein the degree of compression in step a) is controlled independently of the load applied in step c). A corresponding system is also provided.

IPC 8 full level

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