

Title (en)  
Water source heat pump and the optimization method of the heat pump operation

Title (de)  
Beglaubigte Übersetzung aus der polnischen Sprache

Title (fr)  
Pompe à chaleur à eau et le moyen d'optimisation de son fonctionnement

Publication  
**EP 2775234 A2 20140910 (EN)**

Application  
**EP 13461550 A 20131002**

Priority  
PL 40303813 A 20130307

Abstract (en)  
The water source heat pump according to the invention containing lower heat source (3), which at a low water temperature is powered by heat energy originating from the water phase transition between the liquid state and the solid state, the upper heat source (2), connected in the counter-clockwise thermodynamic cycle, is equipped with adjustment and control system, an expansion element (5), water source (11), is characterized by the fact that the lower heat source (3) has a circulation system of the intermediate fluid containing at least three coils (A) immersed in water, with the intermediary fluid running through and receiving heat from water.

IPC 8 full level  
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CPC (source: EP)  
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Citation (applicant)  
PL 209839 A1 19790730 - INST AVTOMATIKI SYST ENERG

Cited by  
CN108870795A; CN109680699A; CN109737640A; WO2018199783A1

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BA ME

DOCDB simple family (publication)  
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