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The present disclosure relates to a cooling system comprising an active magnetic regenerator having a cold side and a hot side, a hot side heat exchanger connected to the hot side of the magnetic regenerator, one or more cold side heat exchangers, and a cold store reservoir comprising a volume of heat transfer fluid and connected between said one or more cold side heat exchangers and the cold side of the magnetic regenerator, wherein the cooling system is configured to provide a first flow cycle of said heat transfer fluid between the cold store reservoir, the magnetic regenerator and the hot side heat exchanger adapted to transfer thermal energy from the cold store reservoir to the hot side heat exchanger, and at least a second flow cycle of said heat transfer fluid between the cold store reservoir and said one or more cold side heat exchangers adapted to transfer thermal energy from said one or more cold side heat exchangers to the cold store reservoir.

General information
Publication status: Published
Organisations: Risø National Laboratory for Sustainable Energy, Department of Energy Conversion and Storage, Secretariat, IT, Department of Physics, Electrofunctional materials
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Publication date: 21 May 2015

Publication information
Patent number: WO2015071460
Priority date: 18/11/2013
Priority number: EP20130193332
Original language: English
Electronic versions:
WO2015071460A2.pdf

Bibliographical note
WO2015071460 (A3)
Source: espacenet
Source ID: WO2015071460