

Title (en)

Production of very low-temperature refrigeration in a thermochemical device.

Title (de)

Erzeugung von Tiefkühlung in einer thermochemischen Vorrichtung.

Title (fr)

Production de froid à très basse température dans un dispositif thermochimique.

Publication

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Application

EP 05814788 A 20051104

Priority

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- FR 0411766 A 20041104

Abstract (en)

[origin: WO2006048558A1] The invention relates to a thermochemical device and method for producing very low-temperature refrigeration. The inventive device produces refrigeration whose temperature $T_f < -20$ °C from a heat source available at a T_h temperature of 60-80 °C and a heat sink at an ambient temperature T_o of 10-25 °C. Said device comprises two coupled dipoles operating in an opposite-phase mode. Thermochemical phenomena in one dipole are such that said dipole can produce refrigeration at the T_f by means of a heat sink at the ambient temperature T_o . The thermochemical phenomena in the other dipole are selected such that said dipole is regeneratable from a heat source T_h and the heat sink at the temperature T_o .

IPC 8 full level

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