

Title (en)

COOLING AND HEATING DEVICE USING A SOLID-GAS REACTION

Title (de)

Vorrichtung zum Erzeugen von Kälte und/oder Wärme mittels einer Reaktion zwischen einem festen Körper und einem Gas

Title (fr)

DISPOSITIF POUR LA PRODUCTION DE FROID ET/OU DE CHALEUR PAR REACTION SOLIDE-GAZ

Publication

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Application

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Abstract (en)

[origin: WO9316339A1] Cooling and heating device using a chemical reaction comprising at least four reactors (R1?, R2?, R3?, R4?), each containing a salt capable of chemically reacting with a gas, an enclosure (3) for receiving gas from the reactors and an enclosure (E) for conveying gas to the reactors. The device is arranged so that, during the chemical reaction, two reactors are at the same higher pressure level, while two reactors are at the same lower pressure level. According to the invention, the device also comprises a heat-transporting fluid circuit (45) for transferring heat between the reactors, operating at the same pressure level.

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