

Title (en)

DEVICE AND METHOD FOR THE CONTINUOUS THERMOCHEMICAL PRODUCTION OF COLD

Title (de)

VORRICHTUNG UND VERFAHREN ZUR KONTINUIERLICHEN THERMOCHEMISCHEN ERZEUGUNG VON KÄLTE

Title (fr)

DISPOSITIF ET PROCEDE DE PRODUCTION CONTINUE DE FROID PAR VOIE THERMOCHIMIQUE

Publication

**EP 2844933 A1 20150311 (FR)**

Application

**EP 13726012 A 20130430**

Priority

- FR 1201285 A 20120503
- FR 2013050951 W 20130430

Abstract (en)

[origin: WO2013164539A1] The invention relates to a system and a thermochemical method for the production of cold, of the type that uses at least one reactive device comprising a reactor (1a, 1b) or a chamber for storing a reactive product that can absorb a gas. The reactive product and the gas are such that, when they are exposed to one another, they undergo a reaction that results in the absorption of the gas by the reactive product and, conversely, they undergo a reaction comprising the desorption of the gas absorbed by the reactive product as a result of heat applied to the reactive product when it absorbed the gas. The system comprises two substantially identical reactive devices disposed such as to have opposing operating cycles, so that when the reactor (1b) of one reactive device is operating in the absorption cycle, the reactor (1a) of the other is operating in the desorption cycle. The system is characterised in that it comprises means for determining the progress rate (X) of the thermochemical reaction.

IPC 8 full level

**F25B 17/08** (2006.01)

CPC (source: CN EP US)

**B60N 2/3065** (2013.01 - EP US); **B60N 2/366** (2013.01 - EP US); **F25B 17/083** (2013.01 - CN EP US); **F25D 5/00** (2013.01 - US); **F25B 2315/00** (2013.01 - CN)

Citation (search report)

See references of WO 2013164539A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2013164539 A1 20131107**; BR 112014027093 A2 20170627; CA 2872250 A1 20131107; CN 104272038 A 20150107; CN 104272038 B 20170412; EP 2844933 A1 20150311; FR 2990267 A1 20131108; FR 2990267 B1 20180406; JP 2015521271 A 20150727; US 2015068220 A1 20150312; US 9719712 B2 20170801

DOCDB simple family (application)

**FR 2013050951 W 20130430**; BR 112014027093 A 20130430; CA 2872250 A 20130430; CN 201380022934 A 20130430; EP 13726012 A 20130430; FR 1201285 A 20120503; JP 2015509474 A 20130430; US 201314391037 A 20130430