

Title (en)

CHEMICAL HEATING COMPOSITIONS AND METHODS

Title (de)

CHEMISCHE ERWÄRMUNGSZUSAMMENSETZUNGEN UND -VERFAHREN

Title (fr)

COMPOSITIONS ET PROCÉDÉS DE CHAUFFAGE CHIMIQUE

Publication

**EP 2179229 A2 20100428 (EN)**

Application

**EP 08781270 A 20080702**

Priority

- US 2008069014 W 20080702
- US 94787607 P 20070703

Abstract (en)

[origin: WO2009006521A2] A user-activatable, single-use chemical heater that includes at least one compartment of a first type separated from at least one compartment of a second type by a separator that is compromisable by a user to establish communication therebetween. Water and ingredients of a heating system that generates heat by an oxidation-reduction reaction between aluminum metal and a water-soluble copper halide are stored in and divided between the compartments of the first and second types so as not to initiate the heat-generating reaction until the contents of the compartments of the first and second types mix following compromise of said separator.

IPC 8 full level

**F24V 30/00** (2018.01); **A47J 36/28** (2006.01)

CPC (source: EP)

**F24V 30/00** (2018.04)

Citation (search report)

See references of WO 2009006521A2

Cited by

US11825870B2; US11241042B2; US10036574B2; US11452313B2; US12016393B2; US10542777B2; US11672279B2; US12041968B2; US11064725B2; US11659863B2; US11924930B2

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**WO 2009006521 A2 20090108; WO 2009006521 A3 20090402**; EP 2179229 A2 20100428; JP 2010532463 A 20101007

DOCDB simple family (application)

**US 2008069014 W 20080702**; EP 08781270 A 20080702; JP 2010515253 A 20080702