

Title (en)

A portable fuel heater to heat air and a method for heating air through said heater

Title (de)

Tragbare Brennstoffheizeinrichtung zum Erwärmen von Luft sowie ein Verfahren zum Erwärmen von Luft durch die Heizeinrichtung

Title (fr)

Appareil de chauffage à combustible portable pour chauffer l'air et procédé permettant de chauffer l'air à travers ledit dispositif de chauffage

Publication

EP 2784409 A1 20141001 (EN)

Application

EP 13161801 A 20130328

Priority

EP 13161801 A 20130328

Abstract (en)

A portable fuel heater (1, 101, 201, 301) to heat air, comprising: a combustion chamber (10, 110, 210, 310) defined by a first delimitation wall (11, 111, 211, 311); fuel adduction ducts (12) leading to the inside of the combustion chamber (10, 110, 210, 310); first forced ventilation means (13) configured to generate an oxidizing air flow (14) in the combustion chamber (10), where it reacts with the fuel; an energy converter (20, 50) arranged with a first thermal exchange portion (21, 51) in thermal contact with the combustion chamber (10, 110, 210, 310) and a second thermal exchange portion (22, 52) that is distinct from said first exchange portion, configured to convert the thermal energy of the temperature difference between the first thermal exchange portion (21, 51) and the second thermal exchange portion (22, 52) into electric or kinetic energy, said energy converter (20, 50) being connected to actuate said first forced ventilation means (13).

IPC 8 full level

F24H 3/04 (2006.01); **F24H 3/02** (2006.01)

CPC (source: EP US)

F24H 3/025 (2013.01 - EP US); **F24H 3/0417** (2013.01 - EP); **F24H 2240/01** (2013.01 - EP US); **F24H 2240/08** (2013.01 - EP US); **F24H 2240/122** (2013.01 - EP US)

Citation (search report)

- [XAYI] US 5509604 A 19960423 - CHUNG WOO S [KR]
- [IAY] US 2013008423 A1 20130110 - NOBLE NATHAN [US], et al
- [I] DE 3148162 A1 19830609 - GC GAS CONTROL MESSGERÄTE FUE [DE]
- [I] JP S60134150 A 19850717 - MITSUBISHI ELECTRIC CORP

Cited by

RU193704U1; ITUB20151243A1; EP3093578A1; USD963817S; WO2016189375A1

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)

EP 2784409 A1 20141001; EP 2784409 B1 20170118

DOCDB simple family (application)

EP 13161801 A 20130328