

Title (en)

Far infrared heater using biofuel

Title (de)

Biokraftstoff verwendender Fern-Infrarot-Heizer

Title (fr)

Radiateur infrarouge lointain utilisant un biocarburant

Publication

EP 3023700 A1 20160525 (EN)

Application

EP 14194238 A 20141121

Priority

KR 20140162920 A 20141120

Abstract (en)

Disclosed herein is a far infrared heater using biofuel. The far infrared heater includes a fuel combustion unit (110), a far infrared transmission window (120), a thermal power controller (130) and an automatic extinguishing unit (140). The fuel combustion unit burns a biofuel stored therein to generate heat. The far infrared transmission window surrounds the fuel combustion unit to prevent flames generated by burning the biofuel from being exposed to the outside. The far infrared transmission window allows far infrared rays generated from the heat source to be radiated to the outside through the far infrared transmission window. The thermal power controller adjusts the degree to which the opening formed in the fuel combustion unit opens and thus controls the thermal power of the heater. The automatic extinguishing unit automatically closes the opening of the fuel combustion unit when the heater vibrates or tilts thus preventing the biofuel from burning or leaking.

IPC 8 full level

F24C 5/02 (2006.01); **F24C 5/16** (2006.01)

CPC (source: EP KR)

F24B 1/187 (2013.01 - KR); **F24B 1/1875** (2013.01 - KR); **F24B 1/195** (2013.01 - KR); **F24B 1/199** (2013.01 - KR); **F24C 5/02** (2013.01 - EP); **F24C 5/16** (2013.01 - EP)

Citation (applicant)

KR 20130075870 A 20130708 - GYUWON TECH CO LTD [KR]

Citation (search report)

- [YA] DE 2447793 A1 19760408 - BOESE THEO WILLIAM
- [Y] GB 1370467 A 19741016 - ALADDIN IND LTD

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)

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DOCDB simple family (application)

EP 14194238 A 20141121; KR 20140162920 A 20141120