

Title (en)
HEAT ACCUMULATOR OVEN

Title (de)
WÄRMESPEICHERHERD

Title (fr)
FOURNEAU À ACCUMULATION DE CHALEUR

Publication
EP 2444742 B1 20200311 (DE)

Application
EP 11185687 A 20111018

Priority
DE 102010042877 A 20101025

Abstract (en)
[origin: EP2444742A2] The heat-storage cooker comprises a heat source (22), a thermogenerator with a hot side and a cold side for generating electrical energy during operation of the heat source configured to supply an electrical energy to a electrical functional unit, an electronic controller (26) comprising a microprocessor, an energy-storage unit (28) for storing electrical energy generated by the thermogenerator, and heat sinks. The hot side is provided close to the heat source with good thermal coupling to the heat source and the cold side is routed to a surrounding area and a baking-oven muffle (20). The heat-storage cooker comprises a heat source (22), a thermogenerator with a hot side and a cold side for generating electrical energy during operation of the heat source configured to supply an electrical energy to a electrical functional unit, an electronic controller (26) comprising a microprocessor, an energy-storage unit (28) for storing electrical energy generated by the thermogenerator, and heat sinks. The hot side is provided close to the heat source with good thermal coupling to the heat source and the cold side is routed to a surrounding area, a baking-oven muffle (20), a cooking plate, and/or a heat storage unit of the heat-storage cooker. The electronic controller is provided with a function memory, an automatic program, and electronically actuated and evaluated operator control elements such as touch switches. The energy-storage unit comprises a rechargeable battery. The thermogenerator is coupled to: the heat sources that are designed for continuous or most-frequent or primary operation; and the heat sinks that remain cool and/or less hot even during permanent operation in such a way that a sufficiently large temperature difference is supplied to the thermogenerator to generate the electrical energy. The heat-storage cooker is configured without an electrical connection to an external electrical energy source.

IPC 8 full level
F24B 1/24 (2006.01)

CPC (source: EP US)
F24B 1/24 (2013.01 - EP); **F24C 15/34** (2013.01 - US)

Citation (examination)
• DE 2825231 A1 19781214 - LUFTKONDITIONERING AB
• DE 3148162 A1 19830609 - GC GAS CONTROL MESSGERÄTE FÜR [DE]

Cited by
WO2016135538A1

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