

Title (en)

Multiple temperature point control heater system

Title (de)

Heizsystem mit Steuerung mehrfacher Temperaturpunkte

Title (fr)

Système de chauffage à contrôle de plusieurs points de température

Publication

EP 2439460 A2 20120411 (EN)

Application

EP 11007896 A 20110929

Priority

US 89977910 A 20101007

Abstract (en)

A multi-zone portable heater is provided having an oscillating heater and a plurality of remote sensors. The plurality of remote sensors are radially positionable about the oscillating heater in a spaced apart configuration, each defining a heating region. The remote sensors read a region temperature in their corresponding heating region and can transmit the corresponding region temperature to the heater signal transmitter/receiver. Alternatively, the oscillating heater can transmit a set temperature to each of the plurality of remote sensors, where the remote sensors calculates a region temperature difference between the read region temperature and the set temperature. The region temperature difference being transmitted to the oscillating heater. In this manner, the operational parameters of the oscillating heater can be selectively controlled for each of the regions.

IPC 8 full level

F24H 3/04 (2006.01); **F24H 9/20** (2006.01)

CPC (source: EP US)

F24H 3/0411 (2013.01 - EP); **F24H 9/2071** (2013.01 - EP US); **F24H 15/20** (2022.01 - EP US); **F24H 15/281** (2022.01 - EP US); **F24H 15/35** (2022.01 - EP US); **F24H 15/37** (2022.01 - EP US); **F24H 15/25** (2022.01 - EP US); **F24H 15/395** (2022.01 - EP US); **F24H 15/414** (2022.01 - EP US)

Citation (applicant)

- US 4703152 A 19871027 - SHIH-CHIN SHAO [TW]
- US 6321034 B2 20011120 - JONES-LAWLOR HEATHER [US], et al

Cited by

CN117839776A

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 2439460 A2 20120411

DOCDB simple family (application)

EP 11007896 A 20110929