

Title (en)
Radiant tube heater assembly

Title (de)
Strahlungsrohr-Wärmeanordnung

Title (fr)
Ensemble de chauffage à tubes radiants

Publication
EP 2119962 A1 20091118 (EN)

Application
EP 08251679 A 20080513

Priority
EP 08251679 A 20080513

Abstract (en)
A radiant tube heater includes a housing (1), and a blower (6) and a burner (9) in the housing (1) for creating and combusting a fuel/air mixture. A burner tube (2) extends outwardly from the housing (1) for carrying products of combustion therefrom. When less heat is required, unless air from the blower (6) is reduced, there is too much air for complete combustion of the fuel and excess air mixes with combustion gases causing cooling in the burner tube (2). This problem is solved by providing a short flame tube (15) in the inlet end of the burner tube (2) for receiving the flame (12). Excess air flow around the flame tube (15) is heated. Thus, it is necessary to reduce only the supply of fuel to the burner (9).

IPC 8 full level
F23C 3/00 (2006.01); **F23D 14/12** (2006.01)

CPC (source: EP US)
F23C 3/002 (2013.01 - EP); **F23D 14/126** (2021.05 - EP US); **F23D 2203/002** (2013.01 - EP); **F23D 2900/11403** (2013.01 - EP)

Citation (search report)

- [XY] EP 1318354 A2 20030611 - MODINE MFG CO [US]
- [Y] DE 19817734 A1 19991104 - VIESSMANN WERKE KG [DE]
- [Y] CA 2212147 A1 19990131 - CARRIERE LEO [CA]
- [A] DE 19925276 A1 20001207 - RUHRGAS AG [DE]
- [A] US 2006081238 A1 20060420 - VANCEK JOHN [CA]

Cited by
CN114251656A

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)
EP 2119962 A1 20091118; EP 2119962 B1 20131211

DOCDB simple family (application)
EP 08251679 A 20080513