

Title (en)

HEATER FOR GENERATING HOT AIR AND INSULATOR FOR ITS ELECTRIC HEATING WIRE

Title (de)

HEIZGERÄT ZUR ERZEUGUNG VON HEISSLUFT UND ISOLIERUNG FÜR DESSEN ELEKTROHEIZDRAHT

Title (fr)

APPAREIL DE CHAUFFAGE SERVANT PRODUIRE DE L'AIR CHAUD ET ISOLATEUR POUR SON FIL ELECTRIQUE CHAUFFANT

Publication

EP 1717526 A4 20110330 (EN)

Application

EP 04711492 A 20040216

Priority

JP 2004001660 W 20040216

Abstract (en)

[origin: EP1717526A1] The present invention relates to a heater being connected with a blower, to discharge high-temperature hot air, and an insulator installed within said heater. An insulator segment comprises a plate member provided with a multitude of gas venting holes (10, 10,...), of which peripheral portion is formed with fitting portions (12a, 12b) which can fix said insulator segments and receive electrodes. A multitude of said insulator segments are piled one on top of another in a gas flow direction, thereby constituting an insulator. The gas venting holes of the adjacent insulator segments piled together are arranged in slightly shifted positions respectively, and said fitting portions (12a, 12b) for fixing and/or wiring electrode are arranged to coincide from each other. Furthermore, between the adjacent insulator segments where the gas venting holes are shifted in position from each other, is arranged spacer insulator, which comprises a frame member having only a peripheral section in which fitting portions (12c) for fixing and/or wiring electrode are disposed at same position as those of insulator segments, so that a set of insulators for electric heating wire has been made. By wiring up nichrom wire in the gas venting holes of said set of insulators is twisted the nichrome wire by the insulator segments, and held and secured surely.

IPC 8 full level

F24H 3/08 (2006.01); **H05B 3/06** (2006.01); **H05B 3/10** (2006.01); **H05B 3/16** (2006.01)

CPC (source: EP)

H05B 3/06 (2013.01); **H05B 3/10** (2013.01); **H05B 3/16** (2013.01)

Citation (search report)

- [A] DE 10163012 A1 20030710 - SIEMENS AG [DE]
- See references of WO 2005078357A1

Designated contracting state (EPC)

CH DE LI

DOCDB simple family (publication)

EP 1717526 A1 20061102; **EP 1717526 A4 20110330**; **EP 1717526 B1 20130814**; CN 100410595 C 20080813; CN 1777779 A 20060524; JP 4271686 B2 20090603; JP WO2005078357 A1 20070830; WO 2005078357 A1 20050825

DOCDB simple family (application)

EP 04711492 A 20040216; CN 200480010852 A 20040216; JP 2004001660 W 20040216; JP 2005517868 A 20040216