

Title (en)

DISTRIBUTOR AND COMBUSTOR AND WATER HEATER HAVING SAME

Title (de)

VERTEILER UND BRENNKAMMER UND WARMWASSERERHITZER DAMIT

Title (fr)

DISTRIBUTEUR ET CHAMBRE DE COMBUSTION ET CHAUFFE-EAU LES COMPRENANT

Publication

EP 3795922 A4 20220427 (EN)

Application

EP 19803330 A 20190515

Priority

- CN 201820720484 U 20180515
- CN 201820732279 U 20180515
- CN 201820720485 U 20180515
- CN 2019087112 W 20190515

Abstract (en)

[origin: WO2019219037A1] A distributor (100), and a combustor (10) and a water heater having same, the distributor (100) comprising: a first housing (100A) and a second housing (100B) symmetrically provided; ejection tubes (110), each comprising the first housing (100A), the second housing (100B) and an inlet end (113), the ejection tubes (110) ejecting gas upward from the inlet ends (113); and pitch positioning structures (150) provided outside the ejection tubes (110), each pitch positioning structure comprising a first protrusion (151) and a second protrusion (152) provided symmetrically, the first protrusion (151) being formed by the portion of the first housing (100A) protruding toward the outside of the ejection tube (110), and the second protrusion (152) being formed by the portion of the second housing (100B) protruding toward the outside of the ejection tube (110), side walls of the inlet ends (113) of the two adjacent distributors (100) abutting, and the pitch positioning structures (150) of the two adjacent distributors (100) abutting. The combustor (10) can better secure the fixation between the distributors (100) and reduce shaking or vibration, thereby reducing the working noise of the combustor (10).

IPC 8 full level

F24H 9/18 (2022.01); **F23D 14/46** (2006.01); **F23D 14/58** (2006.01)

CPC (source: EP)

F23D 14/045 (2013.01); **F23D 14/46** (2013.01); **F23D 14/58** (2013.01); **F24H 9/1836** (2013.01)

Citation (search report)

- [Y] EP 1130315 A2 20010905 - BOSCH GMBH ROBERT [DE]
- [YA] JP H0463914 U 19920601
- [YA] EP 3303921 A1 20180411 - POLIDORO S P A [IT]
- [YA] WO 2005059437 A1 20050630 - WORGAS BRUCIATORI SRL [IT], et al
- [A] AU 2588671 A 19720831
- [A] EP 1443271 A1 20040804 - AIR PROD & CHEM [US]
- [A] CN 204227677 U 20150325 - GUANGDONG VANWARD NEW ELECTRIC
- See also references of WO 2019219037A1

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

DOCDB simple family (publication)

EP 3795922 A1 20210324; EP 3795922 A4 20220427; WO 2019219037 A1 20191121

DOCDB simple family (application)

EP 19803330 A 20190515; CN 2019087112 W 20190515