

Title (en)
PORTED BURNER

Title (de)
PORTIERTER BRENNER

Title (fr)
BRÛLEUR À ORIFICES

Publication
EP 3926236 A3 20220309 (EN)

Application
EP 21178907 A 20210611

Priority
US 202063039744 P 20200616

Abstract (en)
A fuel burner includes a tube extending along a centerline from a first end to a second end and having an outer surface and an inner surface defining a central passage. The central passage is supplied at the first end with a mixture of air and combustible fuel pre-mixed upstream of the tube. The second end is closed by an end wall in a fluid-tight manner. The tube has fluid directing structure for directing the pre-mixed mixture radially outward from the central passage to an exterior of the tube such that flames exiting adjacent fluid directing structures extend towards and impinge one another.

IPC 8 full level
F23D 14/58 (2006.01)

CPC (source: EP US)
F23D 14/02 (2013.01 - US); **F23D 14/58** (2013.01 - EP); **F23D 14/70** (2013.01 - US); **F23D 2203/1012** (2013.01 - EP US); **F23D 2203/102** (2013.01 - EP); **F23D 2203/1026** (2013.01 - US)

Citation (search report)

- [XA] US 2015167967 A1 20150618 - LE MER JOSEPH [FR]
- [XA] WO 2015196504 A1 20151230 - SMITH A O CHINA WATER HEATER [CN]
- [YA] DE 102015202983 A1 20160825 - BOSCH GMBH ROBERT [DE]
- [YA] US 2010291495 A1 20101118 - SCRIBANO GIANFRANCO [IT], et al
- [YA] EP 1840461 A1 20071003 - AEROMATIX LTD [GB]

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 3926236 A2 20211222; EP 3926236 A3 20220309; EP 4001758 A1 20220525; US 2021388981 A1 20211216

DOCDB simple family (application)
EP 21178907 A 20210611; EP 22150730 A 20210611; US 202117338752 A 20210604