

Title (en)  
GAS BURNER ASSEMBLY

Title (de)  
GASBRENNERANORDNUNG

Title (fr)  
ENSEMBLE BRÛLEUR DE GAZ

Publication  
**EP 3904765 A3 20220216 (EN)**

Application  
**EP 21170271 A 20210423**

Priority  
US 202016863888 A 20200430

Abstract (en)  
An atmospheric gas water heater includes a burner assembly. The burner assembly includes a burner having a body, and a screen member coupled to the body. A conduit is fluidly connected to the body. The conduit has an open end configured to receive gas and air. The flow of gas and air from the open end through the conduit to the body and past the screen member is defined as a downstream direction. The screen member defines a zone of combustion. The gas and the air is 100% premixed together upstream of the zone of combustion. The body of the burner has a first segment extending between a first end and a second end, and second and third segments extending from the first segment. The second segment and the third segment extend parallel to and spaced apart from each other to form a U-shape.

IPC 8 full level  
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CPC (source: EP US)  
**F23D 14/04** (2013.01 - US); **F23D 14/045** (2013.01 - EP); **F23D 14/14** (2013.01 - EP); **F23D 14/145** (2013.01 - EP); **F23D 14/151** (2021.05 - EP); **F23D 14/70** (2013.01 - EP US); **F23J 13/02** (2013.01 - EP); **F23J 15/06** (2013.01 - EP); **F23M 9/003** (2013.01 - EP); **F23Q 9/12** (2013.01 - US); **F24H 1/181** (2013.01 - US); **F24H 1/186** (2013.01 - US); **F23D 2203/1017** (2013.01 - US); **F23D 2203/1023** (2013.01 - EP); **F23D 2203/103** (2013.01 - EP US); **F23J 2217/30** (2013.01 - EP)

Citation (search report)  
• [Y] US 2007221142 A1 20070927 - GARRABRANT MICHAEL A [US], et al  
• [Y] FR 2310679 A5 19761203 - FERROLI SPA IND [IT]  
• [A] US 6135061 A 20001024 - VALCIC ZORAN [AU], et al

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 3904765 A2 20211103; EP 3904765 A3 20220216**; CA 3116151 A1 20211030; US 2021341177 A1 20211104

DOCDB simple family (application)  
**EP 21170271 A 20210423**; CA 3116151 A 20210426; US 202016863888 A 20200430