

Title (en)

INWARDLY FIRING BURNER AND USES THEREOF

Title (de)

NACH INNEN FLAMMENDER BRENNER UND VERWENDUNGEN DAVON

Title (fr)

BRÛLEUR D'ALLUMAGE INTERNE ET SES UTILISATIONS

Publication

**EP 2235447 A1 20101006 (EN)**

Application

**EP 08794563 A 20080717**

Priority

- US 2008008753 W 20080717
- US 518107 A 20071226

Abstract (en)

[origin: US2009165733A1] An inwardly firing burner design is shown which can be used in a variety of heating applications. A water heater apparatus is also shown which includes a water heating tank having generally cylindrical sidewalls with upper and lower ends, each of which is closed by a transverse wall section to define a closed tank interior. The tank also has a water inlet and a water outlet. A plurality of vertically arranged fire tubes are connected between the upper and lower transverse wall sections, each fire tube having an open interior for conducting products of combustion. A burner assembly is mounted on the tank which features the inwardly firing construction that eliminates the need for an external combustion chamber.

IPC 8 full level

**F24H 1/00** (2006.01)

CPC (source: EP US)

**F23C 5/08** (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23D 14/34** (2013.01 - EP US); **F24H 1/36** (2013.01 - EP US)

Citation (search report)

See references of WO 2009082415A1

Designated contracting state (EPC)

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