

Title (en)
ULTRA-LOW NOX BURNER

Title (de)
EXTREM NOX-ARMER BRENNER

Title (fr)
BRÛLEUR À TRÈS FAIBLE NOX

Publication
EP 3865770 A2 20210818 (EN)

Application
EP 21157657 A 20210217

Priority
US 202062977541 P 20200217

Abstract (en)
A burner for use with an igniter for firing a flame into a heat-exchanger includes a body having a sidewall that defines an interior chamber. A first opening in the body receives a pre-mixed mixture of air and fuel. A second opening in the body is in fluid communication with the first opening. A distributor is connected to the body and closes the second opening. The distributor includes a first portion and at least one curved second portion provided on the first portion. Each second portion includes a plurality of first perforations in fluid communication with the first opening in the body. The first perforations of one second portion are positioned adjacent to the igniter such that ignition of the pre-mix mixture flowing through the first perforations results in a flame through the second portion. A flange extends around the first portion and includes second perforations.

IPC 8 full level
F23D 14/04 (2006.01); **F23D 14/64** (2006.01); **F23D 14/70** (2006.01)

CPC (source: EP US)
F23D 14/02 (2013.01 - EP US); **F23D 14/04** (2013.01 - EP); **F23D 14/64** (2013.01 - EP); **F23D 14/70** (2013.01 - EP); **F24H 3/025** (2013.01 - US); **F23D 2203/1015** (2013.01 - EP); **F23D 2203/102** (2013.01 - EP); **F23D 2900/14064** (2013.01 - EP); **F24D 2200/04** (2013.01 - US)

Citation (applicant)
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Designated extension state (EPC)
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