

Title (en)  
Flame screen burner assembly

Title (de)  
Flammenschirmbrenneranordnung

Title (fr)  
Ensemble pare-flammes de brûleur

Publication  
**EP 2899463 A1 20150729 (EN)**

Application  
**EP 15275023 A 20150121**

Priority  
GB 201401045 A 20140122

Abstract (en)  
A multi-layer flame screen burner assembly comprising first and second outer layers 10,11, at least one flame layer 15 having a plurality of fingers 19 defined by slots 20 provided in the flame layer which open along one edge of the flame layer, and at least one gas distribution layer 16 overlying the flame layer 15 and defining an aperture 23 which is in communication with the slots 20 between the fingers 19 of the adjacent flame layer 15. The overlying flame and gas distribution layers are disposed between the outer layers and the burner assembly has at least one port 14 for the admission of combustible gas to the aperture 23 of the gas distribution layer 16, whereby gas supplied to the port is fed through the aperture to the slots between the fingers of the flame layer. The assembly may be essentially planar or formed into a cylindrical or other shapes and may be located in a plenum chamber, the combustible gas being supplied to the chamber interior and thence to the aperture in the flame layer.

IPC 8 full level  
**F23D 14/14** (2006.01)

CPC (source: EP US)  
**F23D 14/145** (2013.01 - EP); **F23D 14/149** (2021.05 - EP US); **F23C 2900/9901** (2013.01 - EP); **F23D 2203/1026** (2013.01 - EP); **F23D 2203/103** (2013.01 - EP); **F23D 2203/106** (2013.01 - EP); **F23D 2203/108** (2013.01 - EP)

Citation (search report)

- [X] EP 2573463 A2 20130327 - KYUNG DONG NAVIEN CO LTD [KR]
- [X] US 2735482 A 19560221
- [X] US 2484123 A 19491011 - SCHERL EGON B
- [X] US 5224855 A 19930706 - TOYONAGA HAJIME [JP], et al

Cited by  
EP3569927A1; FR3081210A1; EP4246042A1

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 2899463 A1 20150729; EP 2899463 B1 20161228**; GB 201401045 D0 20140305

DOCDB simple family (application)  
**EP 15275023 A 20150121**; GB 201401045 A 20140122