

Title (en)  
OXY FLAT FLAME BURNER AND BLOCK ASSEMBLY

Title (de)  
SAUERSTOFF-FLACHBRENNER UND BLOCKANORDNUNG

Title (fr)  
ENSEMBLE BLOC ET BRÛLEUR À FLAMME PLATE OXY

Publication  
**EP 4103880 A1 20221221 (EN)**

Application  
**EP 20918889 A 20200212**

Priority  
US 2020017854 W 20200212

Abstract (en)  
[origin: WO2021162684A1] A block and burner assembly including a flat flame burner sub-assembly which includes a flat flame burner body in fluid communication with a gas source. The flat flame burner body includes a gas inlet in fluid communication with the gas source and a gas nozzle, and a fuel inlet in fluid communication a fuel nozzle, wherein the gas nozzle is arranged to at least partially encompass the fuel nozzle. The block and burner assembly includes a flat flame burner block arranged to receive at least a portion of the fuel nozzle and at least a portion of the gas nozzle, a staged injector sub-assembly in fluid communication with the gas source, and a staged injector block connected to the flat flame burner block and arranged to receive the at least a portion of the staged injector sub-assembly wherein the flat flame burner block and the staged injector block are separable.

IPC 8 full level  
**F23D 14/32** (2006.01); **F23C 5/00** (2006.01); **F23C 5/08** (2006.01); **F23C 5/14** (2006.01); **F23D 14/22** (2006.01); **F23M 3/02** (2006.01); **F23M 3/04** (2006.01)

CPC (source: EP US)  
**F23C 6/045** (2013.01 - US); **F23D 14/22** (2013.01 - EP US); **F23D 14/32** (2013.01 - EP US); **F23M 5/025** (2013.01 - EP); **F23D 2900/14641** (2013.01 - EP)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021162684 A1 20210819**; CN 115135929 A 20220930; EP 4103880 A1 20221221; EP 4103880 A4 20240110; EP 4306853 A2 20240117; EP 4306853 A3 20240424; JP 2023523122 A 20230602; US 2023049414 A1 20230216

DOCDB simple family (application)  
**US 2020017854 W 20200212**; CN 202080096355 A 20200212; EP 20918889 A 20200212; EP 23213512 A 20200212; JP 2022549065 A 20200212; US 202017760254 A 20200212