

Title (en)
BURNER

Title (de)
BRENNER

Title (fr)
BRÛLEUR

Publication
EP 3469259 A1 20190417 (EN)

Application
EP 17730243 A 20170607

Priority
• GB 201610006 A 20160608
• GB 2017051648 W 20170607

Abstract (en)
[origin: GB2551165A] A burner has a primary conduit (13, fig.2) extending along a burner axis to a primary conduit outlet for conveying a mixture of fuel and primary gas (PA) and a secondary conduit (15, fig.2) disposed about the primary conduit extending parallel to a burner axis to a secondary conduit outlet for conveying a secondary gas (SA). A shroud comprising a shroud outlet plate (3, fig.2) is located at the burner outlet transverse to the burner axis, having a shroud central outlet (5, fig.2) and a plate formation extending outwardly from the central outlet over and beyond the primary and secondary conduit outlets. A primary flow divider (11, fig.2) is coupled to the shroud central outlet and divides the flow in the primary conduit between a first primary subflow (PA1) to the shroud central outlet and a second primary subflow (PA2) diverted away from the shroud central outlet. The burner may use pulverous fuel. The first primary subflow and the secondary gas may be deflected by the plate to leave the burner peripherally of the plate and form Reaction Zones 2 which may generate flue gas to produce an effect equivalent to flue gas recirculation and/or to enhance flue gas recirculation.

IPC 8 full level
F23C 7/00 (2006.01); **F23C 9/00** (2006.01); **F23D 1/00** (2006.01); **F23D 14/24** (2006.01); **F23D 14/70** (2006.01)

CPC (source: EP GB KR)
F23C 7/004 (2013.01 - EP KR); **F23C 9/003** (2013.01 - EP KR); **F23C 9/006** (2013.01 - EP KR); **F23D 1/00** (2013.01 - EP GB KR); **F23D 14/24** (2013.01 - EP KR); **F23D 14/70** (2013.01 - EP KR); **F23C 2900/09002** (2013.01 - EP KR)

Citation (search report)
See references of WO 2017212259A1

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)
GB 201610006 D0 20160720; **GB 2551165 A 20171213**; EP 3469259 A1 20190417; KR 20190025903 A 20190312; WO 2017212259 A1 20171214

DOCDB simple family (application)
GB 201610006 A 20160608; EP 17730243 A 20170607; GB 2017051648 W 20170607; KR 20197000526 A 20170607