

Title (en)
FUEL MIXING

Title (de)
BRENNSTOFFMISCHUNG

Title (fr)
MÉLANGE DE COMBUSTIBLE

Publication
EP 4103881 A1 20221221 (EN)

Application
EP 21703442 A 20210204

Priority
• GB 202001922 A 20200212
• EP 2021052642 W 20210204

Abstract (en)
[origin: WO2021160506A1] A boiler (2) is provided with a mixer (4) to mix together fuel and oxidiser, and a burner (6) to burn a mixture of fuel and oxidiser from the mixer (4). The mixer (4) has a plurality of venturis (8,10) and a mixing flow pathway (12) extending from the plurality of venturis (8,10). The mixing flow pathway (12) is configured to provide fluid communication between the plurality of venturis (8,10) and the burner (6). Each venturi (8,10) has a mixing chamber (14), a fuel inlet (16) to provide fluid communication between the mixing chamber (14) and a source of fuel (18), an oxidiser inlet (20) to provide fluid communication between the mixing chamber (14) and a source of oxidiser (22), and a venturi outlet (24) to provide fluid communication between the mixing chamber (14) and the mixing flow pathway (12). The venturi outlets (24) open into the mixing flow pathway (12).

IPC 8 full level
F23D 14/64 (2006.01); **F23D 14/82** (2006.01)

CPC (source: EP GB)
F23D 14/62 (2013.01 - GB); **F23D 14/64** (2013.01 - EP); **F23D 14/82** (2013.01 - EP GB); **F23C 2900/9901** (2013.01 - EP);
F23D 2900/14642 (2013.01 - EP)

Citation (search report)
See references of WO 2021160506A1

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 2021160506 A1 20210819; EP 4103881 A1 20221221; GB 202001922 D0 20200325; GB 2592191 A 20210825

DOCDB simple family (application)
EP 2021052642 W 20210204; EP 21703442 A 20210204; GB 202001922 A 20200212