

Title (en)
VARIABLE CROSS-SECTION DISTRIBUTOR DEVICE FOR A PREMIXING BURNER AND BURNER COMPRISING SUCH DISTRIBUTOR

Title (de)
VARIABLER QUERSCHNITT VERTEILEREINRICHTUNG FÜR EINEN VORMISCHBRENNER UND BRENNER MIT EINER SOLCHEN VERTEILEREINRICHTUNG

Title (fr)
DISPOSITIF DE DISTRIBUTEUR À COUPE VARIABLE POUR UN BRÛLEUR PRÉMÉLANGEUR ET BRÛLEUR COMPRENANT UN TEL DISTRIBUTEUR

Publication
EP 3628924 B1 20210602 (EN)

Application
EP 19198841 A 20190923

Priority
IT 201800008913 A 20180925

Abstract (en)
[origin: EP3628924A1] A variable cross-section distributor for a premix burner is provided with a plurality of openings and deflector elements which are located proximate thereto on an output surface and which have guide surfaces for directing the flow of an air and gas mixture in a plurality of directions. A first deflector element is configured to direct a part of the flow permanently in a first direction towards an ionisation sensor. A movable deflector element, capable of adopting, as a function of the pressure exerted on it by the mixture, a position that is variable relative to the output surface, is used to vary the cross section of the distributor through which the mixture flows and to minimise the load losses; the movable deflector directs a part of the flow in a second variable direction. At least one further, fixed deflector is configured to direct a part of the flow permanently in a second direction, different from the first direction, and to regulate the fluid dynamic distribution output from the distributor.

IPC 8 full level
F23D 14/02 (2006.01); **F23D 14/14** (2006.01); **F23D 14/62** (2006.01)

CPC (source: EP US)
F23D 14/02 (2013.01 - EP); **F23D 14/62** (2013.01 - EP US); **F23D 2203/002** (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

DOCDB simple family (publication)
EP 3628924 A1 20200401; EP 3628924 B1 20210602

DOCDB simple family (application)
EP 19198841 A 20190923