

Title (en)

BURNER ASSEMBLY, METHOD FOR SAID BURNER ASSEMBLY AND PLANT COMPRISING SAID BURNER ASSEMBLY

Title (de)

BRENNERANORDNUNG, VERFAHREN FÜR BESAGTE BRENNERANORDNUNG UND ANLAGE MIT BESAGTER BRENNERANORDNUNG

Title (fr)

ENSEMBLE BRÛLEUR, PROCÉDÉ DUDIT ENSEMBLE BRÛLEUR ET INSTALLATION COMPRENANT DUDIT ENSEMBLE BRÛLEUR

Publication

EP 3819540 A1 20210512 (EN)

Application

EP 20206294 A 20201106

Priority

IT 201900020510 A 20191106

Abstract (en)

A burner assembly for burning pulverised fuel is provided with a primary duct (2) extending along a longitudinal axis (A) wherein a flow of air and pulverised fuel flows in one direction (D); the primary duct (2) having one inlet (7) and one outlet (8); and with an inlet assembly (6) connected to the inlet (7) of the primary duct (2) and supplied, in use, with air and pulverised fuel; the inlet assembly (6) being provided with at least one inclined portion (13) configured to deflect the flow of air and fuel in such a way that the flow itself has a velocity component opposite to the direction (D); wherein the inclined portion is defined by a first wall (16) with a first outer lateral surface (17) facing the primary duct (2) and a second wall (18) with a second outer lateral surface (19) not facing the primary duct (2); wherein at least the first wall (16) deflects the flow of air and pulverised fuel.

IPC 8 full level

F23D 1/00 (2006.01)

CPC (source: EP)

F23D 1/00 (2013.01); **F23D 2201/20** (2013.01); **F23D 2201/30** (2013.01); **F23D 2900/01001** (2013.01); **F23K 2203/008** (2013.01)

Citation (applicant)

- US 2008092789 A1 20080424 - TAKASHIMA RYUHEI [JP], et al
- US 4611543 A 19860916 - COLLETTE ROBERT J [US]
- CN 104776428 A 20150715 - HARBIN BOSHEN SCIENCE & TECHNOLOGY DEV CO LTD

Citation (search report)

- [A] US 2008092789 A1 20080424 - TAKASHIMA RYUHEI [JP], et al
- [A] US 4611543 A 19860916 - COLLETTE ROBERT J [US]
- [A] CN 104776428 A 20150715 - HARBIN BOSHEN SCIENCE & TECHNOLOGY DEV CO LTD

Cited by

CN116839024A

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 3819540 A1 20210512; **EP 3819540 B1 20220518**; ES 2925850 T3 20221020; IT 201900020510 A1 20210506

DOCDB simple family (application)

EP 20206294 A 20201106; ES 20206294 T 20201106; IT 201900020510 A 20191106