

Title (en)

BURNER UNIT AND BURNER ARRANGEMENT FOR POWDERED SOLID FUEL

Title (de)

BRENNEREINHEIT UND BRENNERANORDNUNG FÜR STAUBFÖRMIGEN FESTBRENNSTOFF

Title (fr)

UNITÉ BRÛLEUR ET DISPOSITIF BRÛLEUR POUR COMBUSTIBLE SOLIDE PULVÉRULENT

Publication

**EP 2304316 A2 20110406 (DE)**

Application

**EP 09780392 A 20090709**

Priority

- EP 2009058770 W 20090709
- DE 102008032589 A 20080711

Abstract (en)

[origin: EP2143998A2] The burner unit has a tube (3) for feeding a solid fuel in a feed direction. A surrounding body (4) is arranged in an extension of the tube for redirecting solid powdered fuel radiation discharged from the tube. The tube has a ring-shaped bluff body (7) surrounding the tube. The bluff body deflects the solid powdered fuel radiation deflected by the surrounding body in the feed direction. A combustion chamber (8) is connected with another tube (6) for guiding combustion exhaust gas in the latter tube.

IPC 8 full level

**F23D 1/02** (2006.01); **F23C 5/06** (2006.01); **F23D 1/00** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP)

**F23D 1/02** (2013.01); **F27B 1/005** (2013.01); **F27B 1/16** (2013.01); **F27D 99/0033** (2013.01); **F23C 2900/03006** (2013.01); **F23C 2900/99004** (2013.01); **F23D 2201/20** (2013.01); **F23D 2201/30** (2013.01); **F23D 2900/00016** (2013.01)

Citation (search report)

See references of WO 2010004009A2

Citation (examination)

- EP 0171788 A1 19860219 - STEIN INDUSTRIE [FR]
- DE 504546 C 19300805 - STEITZ & CO G M B H
- "Entwicklung des Lengerich brenner", ANNOUNCEMENT RHEINKALK,, 28 April 2008 (2008-04-28), pages 1 - 6, XP003026175
- "Technische Verbrennung", 31 December 2006, SPRINGER, article JOOS: "Abschätzen der Flammenlänge", pages: 1 - 907, XP055123385

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2143998 A2 20100113**; **EP 2143998 A3 20110413**; **EP 2143998 B1 20120829**; EP 2304316 A2 20110406; ES 2394539 T3 20130201; PL 2143998 T3 20130329; PT 2143998 E 20121210; SI 2143998 T1 20130131; WO 2010004009 A2 20100114; WO 2010004009 A3 20110428

DOCDB simple family (application)

**EP 09165089 A 20090709**; EP 09780392 A 20090709; EP 2009058770 W 20090709; ES 09165089 T 20090709; PL 09165089 T 20090709; PT 09165089 T 20090709; SI 200930410 T 20090709