

Title (en)

Device for injecting solid fuels in atomised form into a cement kiln

Title (de)

Vorrichtung zur Einspritzung von festen Brennstoffen in zerstäubter Form in einem Zementofen

Title (fr)

Dispositif pour injecter des carburants solides atomisés dans un four de cimenterie

Publication

**EP 1136776 B1 20060510 (EN)**

Application

**EP 01200982 A 20010316**

Priority

IT MI20000598 A 20000322

Abstract (en)

[origin: EP1136776A2] A device (10) for injecting solid fuels in atomised form into a cement kiln (12) is installed at the mouth of a burner (11), and comprises a nozzle for liquid fuels (5), a first pipe (4), coaxial to the nozzle of liquid fuels (5), and an annular piping (1), for injecting the solid fuel in atomised form. In such device (10), the annular piping (1) is divided into a plurality of sectors (1a, 1b) converging towards the burner mouth, so as to allow the formation of alternate rich solid fuel flows, and poor solid fuel flows. The device (10) also exhibits an outside baffle (3) for addressing the primary and secondary air flows, maintaining them sufficiently separate for controlling the first stages of the combustion process relating to the NO<sub>x</sub> formation. <IMAGE>

IPC 8 full level

**F27B 7/34** (2006.01); **F27B 7/32** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)

**F27B 7/34** (2013.01); **F27B 2007/3217** (2013.01); **F27D 99/0033** (2013.01)

Cited by

EP3882548A1; EP3882547A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1136776 A2 20010926**; **EP 1136776 A3 20020814**; **EP 1136776 B1 20060510**; AT E325997 T1 20060615; CY 1105525 T1 20100728; DE 60119417 D1 20060614; ES 2263545 T3 20061216; IT 1316825 B1 20030512; IT MI20000598 A0 20000322; IT MI20000598 A1 20010922

DOCDB simple family (application)

**EP 01200982 A 20010316**; AT 01200982 T 20010316; CY 061101102 T 20060807; DE 60119417 T 20010316; ES 01200982 T 20010316; IT MI20000598 A 20000322