

Title (en)

Method and apparatus for treating process gases in a circulating fluidised bed

Title (de)

Verfahren und Vorrichtung zur Behandlung von Prozessgasen in einer zirkulierenden Wirbelschicht

Title (fr)

Procédé et appareil pour le traitement des gaz industriels dans un lit fluidisé circulant

Publication

EP 0851175 B1 20020417 (DE)

Application

EP 97121573 A 19971208

Priority

CH 320096 A 19961230

Abstract (en)

[origin: EP0851175A1] The reactor has a conically upward-widening diffuser (2), which together with a cylindrical duct (4) and a concentrator (5), forms a Venturi nozzle inlet for the process gases. Between the duct and the diffuser wall (3), an annular base edge zone (6) has evenly distributed base-openings (10,10') concentric with the cylindrical duct for auxiliary gas flow (H) to enter through. Some of the base-openings at least have nozzles (9) for the auxiliary gas flow jets. An outlet for coarse ash (11) is positioned above the base edge zone in the bottom part of the diffuser.

IPC 1-7

F23G 7/06; **F23G 5/30**; **F23J 15/02**; **F23J 15/06**; **F23C 10/02**

IPC 8 full level

F23C 10/06 (2006.01); **F23C 10/20** (2006.01); **F23G 5/30** (2006.01); **F23G 7/06** (2006.01); **F23J 15/02** (2006.01); **F23G 5/00** (2006.01); **F23J 15/06** (2006.01); **F27B 15/10** (2006.01); **F27D 17/00** (2006.01)

CPC (source: EP KR)

F23C 10/20 (2013.01 - EP); **F23G 5/30** (2013.01 - EP); **F23G 7/06** (2013.01 - EP); **F23J 15/02** (2013.01 - EP); **F23J 15/06** (2013.01 - EP); **F27B 15/10** (2013.01 - KR); **F23J 2215/20** (2013.01 - EP); **F23J 2215/30** (2013.01 - EP); **F23J 2219/60** (2013.01 - EP)

Cited by

DE102008054038B3; CN101881458A; US9134022B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0851175 A1 19980701; **EP 0851175 B1 20020417**; AT E216476 T1 20020515; CA 2222958 A1 19980630; CZ 293171 B6 20040218; CZ 422997 A3 19981111; DE 59707042 D1 20020523; ES 2121717 T1 19981216; HU P9702470 A2 19990728; HU P9702470 A3 19991228; JP 3082035 B2 20000828; JP H10206028 A 19980807; KR 100271123 B1 20001201; KR 19980064781 A 19981007; NO 976155 D0 19971230; NO 976155 L 19980701; PL 324068 A1 19980706; TW 354363 B 19990311

DOCDB simple family (application)

EP 97121573 A 19971208; AT 97121573 T 19971208; CA 2222958 A 19971128; CZ 422997 A 19971230; DE 59707042 T 19971208; ES 97121573 T 19971208; HU P9702470 A 19971212; JP 35969397 A 19971226; KR 19970076670 A 19971229; NO 976155 A 19971230; PL 32406897 A 19971229; TW 86119791 A 19971226