

Title (en)  
NOZZLE FOR BLOWING GAS INTO A COMBUSTION PLANT WITH A PIPE AND A SWIRL GENERATOR, FLUE WITH SUCH A NOZZLE AND METHOD OF USING SUCH A NOZZLE

Title (de)  
DÜSE ZUM EINBLASEN VON GAS IN EINE VERBRENNUNGSANLAGE MIT EINEM ROHR UND EINEM DRALLERZEUGER, RAUCHGASZUG MIT EINER DERARTIGEN DÜSE UND VERFAHREN ZUR VERWENDUNG EINER DERARTIGEN DÜSE

Title (fr)  
BUSE D'INJECTION DE GAZ DANS UNE INSTALLATION DE COMBUSTION DOTÉE D'UN TUBE ET D'UN GÉNÉRATEUR TOURBILLONS, CONDUIT DE GAZ DE FUMÉE DOTÉ D'UNE TELLE BUSE ET PROCÉDÉ D'UTILISATION D'UNE TELLE BUSE

Publication  
**EP 4089325 B1 20230809 (DE)**

Application  
**EP 22170612 A 20220428**

Priority  
DE 102021002508 A 20210512

Abstract (en)  
[origin: CN115338050A] The invention relates to a nozzle for blowing gas into an incinerator, having a nozzle tube and a vortex generator, in which the nozzle tube is cylindrical, said vortex generator being attached to the interior of the nozzle tube, to a flue gas discharge device having such a nozzle and to a method for using such a nozzle.

IPC 8 full level  
**F23C 7/00** (2006.01); **F23L 9/02** (2006.01)

CPC (source: CN EP US)  
**B05B 1/341** (2013.01 - CN); **F23C 7/004** (2013.01 - EP US); **F23G 5/44** (2013.01 - CN US); **F23L 9/02** (2013.01 - EP); **F23L 9/04** (2013.01 - US)

Citation (examination)

- US 2010205971 A1 20100819 - WILLIAMS BRANDON PHILIP [US], et al
- CN 105737203 A 20160706 - INST ENG THERMOPHYSICS CAS

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 4089325 A1 20221116; EP 4089325 B1 20230809; EP 4089325 C0 20230809**; CN 115338050 A 20221115; DE 102021002508 A1 20221117; JP 2022176137 A 20221125; US 2022364725 A1 20221117

DOCDB simple family (application)  
**EP 22170612 A 20220428**; CN 202210517951 A 20220512; DE 102021002508 A 20210512; JP 2022077892 A 20220511; US 202217736599 A 20220504