

Title (en)  
Pulverized coal burner

Title (de)  
Kohlenstaubbrenner

Title (fr)  
Brûleur à charbon pulvérisé

Publication  
**EP 0976977 B1 20030326 (EN)**

Application  
**EP 98114219 A 19980729**

Priority  
EP 98114219 A 19980729

Abstract (en)  
[origin: EP0976977A1] In pulverized coal burning boiler for generating steam for power generation or factory, a larger capacity of the burner can be achieved without increasing number of the burners attached to the boiler and without increasing the capacity per each of the burners. A pulverized coal mixture to be supplied in tangential direction with respect to imaginary circle in horizontal plane of furnace is made rich on central side of the imaginary circle by arranging a rich/lean separating body within the pulverized coal mixture nozzle, or dividing front end of the pulverized coal mixture vertically into upper and lower portions so as to introduce ignition promoting air between the nozzle front end and injecting outlet port, or biasing the pulverized coal mixture nozzle with respect to the air nozzle, thereby making it possible to enlarge the capacity of the pulverized coal burner.

IPC 1-7  
**F23C 5/32**; **F23D 1/00**

IPC 8 full level  
**F23C 5/32** (2006.01); **F23D 1/00** (2006.01)

CPC (source: EP)  
**F23C 5/32** (2013.01); **F23D 1/00** (2013.01); **F23D 2201/101** (2013.01); **F23D 2201/20** (2013.01)

Cited by  
US8316782B2; JP2015096789A; CN108397766A; DE10019114A1; CN104494034A; CN109458612A; CN113790440A; FR2848641A1; US2006254483A1; US2016356489A1; US2017045221A1; RU2635947C2; JP2013113501A; EP3438533A1; CZ303467B6; EP1306614A4; JP2018132278A; CN103322561A; CN107083258A; WO2004055435A1; WO2017108484A1; US10746395B2; US11248785B2; WO0177583A1; WO2019025289A1

Designated contracting state (EPC)  
BE NL

DOCDB simple family (publication)  
**EP 0976977 A1 20000202**; **EP 0976977 B1 20030326**; EP 1219893 A1 20020703; EP 1219893 B1 20060118; EP 1219894 A1 20020703; EP 1219894 B1 20060405

DOCDB simple family (application)  
**EP 98114219 A 19980729**; EP 02006378 A 19980729; EP 02006379 A 19980729