

Title (en)  
Pulverized coal burner for low NOx emissions

Title (de)  
Kohlenstaubbrenner für niedrige NOx-Emissionen

Title (fr)  
Brûleur à charbon pulvérisé pour émissions réduites de NOx

Publication  
**EP 1741977 A1 20070110 (DE)**

Application  
**EP 06013706 A 20060703**

Priority  
DE 102005032109 A 20050707

Abstract (en)  
A coal-dust burner with low NOx emissions has a concentric general arrangement with primary a primary air pipe (1) within a secondary (2) air pipe. The primary air pipe inlet has an external array of deflection grooves (3) and an inner stabilization ring (4) formed as a one-piece component.

IPC 8 full level  
**F23C 7/00** (2006.01); **F23D 1/02** (2006.01)

CPC (source: EP)  
**F23C 7/006** (2013.01); **F23D 1/00** (2013.01); **F23D 2201/10** (2013.01); **F23D 2209/20** (2013.01)

Citation (search report)

- [XY] US 4545307 A 19851008 - MORITA SHIGEKI [JP], et al
- [DYA] EP 0571704 B1 19961227 - BABCOCK ENERGIE UMWELT [DE]
- [X] EP 0260382 A1 19880323 - HITACHI LTD [JP], et al
- [X] EP 0893649 A2 19990127 - HITACHI LTD [JP], et al
- [X] EP 0933592 A2 19990804 - HITACHI LTD [JP], et al
- [X] WO 9513502 A1 19950518 - IVO INTERNATIONAL OY [FI], et al
- [X] US 6237510 B1 20010529 - TSUMURA TOSHIKAZU [JP], et al

Cited by  
DE102015111586A1; DE102015111587A1; WO2020165357A1; CN103335308A; CN104728837A; DE102019103640A1; EP1998112A3; CN103343966A; CN103629663A; EP2592341A1; DE102015111585A1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

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