

Title (en)
NOZZLE TIP OF PULVERIZED COAL BURNER

Title (de)
DÜSENSPITZE EINES KOHLENSTAUBBRENNERS

Title (fr)
BEC DE TUYÈRE DE BRÛLEUR DE CHARBON PULVÉRISÉ

Publication
EP 3249294 A1 20171129 (EN)

Application
EP 16204468 A 20161215

Priority
KR 20160063430 A 20160524

Abstract (en)
Disclosed herein is a nozzle tip of a pulverized coal burner, which is capable of preventing the abrasion and separation of flame stabilizers due to the flow of pulverized coal. The nozzle tip includes an inner tubular body (100) having a first passage (120) in which pulverized coal introduced into the inner tubular body (100) flows, an outer tubular body (200) installed outside the inner tubular body (100) while being spaced apart therefrom, and at least one guide plate (300) installed to partition the first passage (120). The nozzle tip further comprises: a plurality of flame stabilizers (400) arranged in a row at the upper and/or lower side in the inner tubular body (100), wherein each of the flame stabilizers (400) has an inclined surface (420, 1420) formed on a side thereof facing a direction in which the pulverized coal flows in the first passage (120), the inclined surface (420, 1420) being inclined toward a central portion of the inner tubular body (100).

IPC 8 full level
F23D 1/00 (2006.01)

CPC (source: CN EP KR)
F23D 1/00 (2013.01 - CN EP KR); **F23D 2201/10** (2013.01 - EP KR); **F23D 2201/20** (2013.01 - EP); **F23D 2201/30** (2013.01 - EP KR)

Citation (search report)
• [XY] WO 9405952 A1 19940317 - NORTHERN ENG IND [GB], et al
• [X] WO 2010081271 A1 20100722 - SHANGHAI BOILER WORKS LTD [CN]
• [YA] KR 20120001185 A 20120104 - DOOSAN HEAVY IND & AMP CONSTR [KR]

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US2023038688A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3249294 A1 20171129; EP 3249294 B1 20190814; CN 107420889 A 20171201; KR 101773297 B1 20170830

DOCDB simple family (application)
EP 16204468 A 20161215; CN 201611039502 A 20161110; KR 20160063430 A 20160524