

Title (en)
Biomass center air jet burner

Title (de)
Biomassenbrenner mit zentralem Luftstrahl

Title (fr)
Brûleur à jet d'air central à biomasse

Publication
EP 2249081 A1 20101110 (EN)

Application
EP 10161503 A 20100429

Priority
• US 17365909 P 20090429
• US 76699110 A 20100426

Abstract (en)
A combustion apparatus capable of firing biomass fuel including a burner assembly which includes a biomass nozzle (18) concentrically surrounded by a core air zone (8) and extending axially along the length of the core air zone, the burner assembly residing within a windbox (2), the windbox being attached to a furnace (3) of a boiler, and the burner assembly being connected to the furnace by a burner throat (4), through which air and fuel supplied to the burner assembly are emitted into the furnace.

IPC 8 full level
F23C 7/00 (2006.01); **F23D 1/00** (2006.01); **F23G 7/10** (2006.01)

CPC (source: EP US)
F23C 7/004 (2013.01 - EP US); **F23D 1/00** (2013.01 - EP US); **F23G 7/10** (2013.01 - EP US); **F23C 2201/20** (2013.01 - EP US); **F23C 2900/06043** (2013.01 - EP US); **F23D 2201/00** (2013.01 - EP US); **F23G 2209/26** (2013.01 - EP US)

Citation (applicant)
US 7430970 B2 20081007 - LARUE ALBERT D [US], et al

Citation (search report)
• [XY] US 5697306 A 19971216 - LARUE ALBERT D [US], et al
• [Y] US 2003091948 A1 20030515 - BOOL LAWRENCE E [US], et al
• [Y] US 2004139894 A1 20040722 - VATSKY JOEL [US], et al
• [XY] WO 0125689 A1 20010412 - FORTUM POWER & HEAT OY [FI], et al

Cited by
EP2799770A4; EP2829796A4; EP2829800A4; US10281148B2; US10107492B2; US10309647B2

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA ME RS

DOCDB simple family (publication)
EP 2249081 A1 20101110; EP 2249081 B1 20170322; AR 076502 A1 20110615; AU 2010201710 A1 20101118; AU 2010201710 A8 20160728; AU 2010201710 B2 20160721; BG 110642 A 20111031; BR PI1001478 A2 20120124; CA 2701967 A1 20101029; CL 2010000425 A1 20110218; CN 101881439 A 20101110; CN 101881439 B 20141112; CO 6330169 A1 20111020; JP 2010261707 A 20101118; KR 101600815 B1 20160308; KR 20100118954 A 20101108; MX 2010004681 A 20101028; NZ 596441 A 20130222; PL 2249081 T3 20170831; RU 2010116575 A 20111110; TW 201105907 A 20110216; US 2010275824 A1 20101104; ZA 201002947 B 20110223

DOCDB simple family (application)
EP 10161503 A 20100429; AR P100101457 A 20100429; AU 2010201710 A 20100428; BG 11064210 A 20100428; BR PI1001478 A 20100429; CA 2701967 A 20100428; CL 2010000425 A 20100429; CN 201010214341 A 20100429; CO 10050931 A 20100429; JP 2010105051 A 20100430; KR 20100039834 A 20100429; MX 2010004681 A 20100428; NZ 59644111 A 20111115; PL 10161503 T 20100429; RU 2010116575 A 20100427; TW 99113507 A 20100428; US 76699110 A 20100426; ZA 201002947 A 20100428