

Title (en)
BOILER DEVICE

Title (de)
KESSELVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUDIÈRE

Publication
EP 2664847 A4 20150520 (EN)

Application
EP 12734688 A 20120112

Priority
• JP 2011003617 A 20110112
• JP 2012050412 W 20120112

Abstract (en)
[origin: EP2664847A1] Reliable and cost-effective boiler equipped with a sound air supply nozzle which enables the following is provided: even when there is a gap between the nozzle provided in a through hole communicating with the interior of a furnace and the through hole, a strong swirl flow along the inner surface of the furnace wall can be formed; and burnout due to radiant heat can be suppressed. The air supply nozzle has the through hole in the furnace wall comprised of a water pipe, the nozzle supplying air is inserted into the through hole, and there is the gap between the nozzle and the through hole. The air supply nozzle is so configured that the position of the tip of the nozzle is located at a distance of 0.8 times the nozzle inside diameter or more away from the furnace wall inner surface and a tangential velocity component is given to gas jetting out of the nozzle.

IPC 8 full level
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Citation (search report)
• [Y] EP 1845308 A2 20071017 - BABCOCK HITACHI KK [JP]
• [Y] EP 0889286 A1 19990107 - PRAXAIR TECHNOLOGY INC [US]
• [A] US 5699746 A 19971223 - NIKKANEN SAMULI [FI], et al
• [A] JP S59195016 A 19841106 - BABCOCK HITACHI KK
• See references of WO 2012096319A1

Designated contracting state (EPC)
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