

Title (en)

Combustion apparatus incorporating a noise reduction arrangement

Title (de)

Verbrennungsvorrichtung mit Rauschreduktionsanordnung

Title (fr)

Appareil de combustion incorporant un agencement de réduction du bruit

Publication

EP 2187124 A3 20111221 (EN)

Application

EP 09014219 A 20091113

Priority

GB 0820946 A 20081115

Abstract (en)

[origin: EP2187124A2] A combustion apparatus such as a boiler comprises a standing wave arm (15, 15') for establishing a standing wave connected to a flue gas outlet (14) of a burner (10) of the device. A gas flue outlet system (17) is connected to the standing wave arm at the zero pressure point or mid-point (16) of the standing wave. The standing wave arm (15, 15') is configured to generate a standing wave in proportion to one half of the wavelength of a resonant frequency to be attenuated.

IPC 8 full level

F23M 3/08 (2006.01); **F23M 20/00** (2014.01)

CPC (source: EP)

F23M 20/005 (2015.01); **F23J 2900/13003** (2013.01)

Citation (search report)

- [Y] US 3414078 A 19681203 - LOUIS ANDERSSON
- [Y] DE 3517859 A1 19861120 - WOLF KLIMATECHNIK GMBH [DE]
- [Y] GB 1513473 A 19780607 - YAMAHA MOTOR CO LTD
- [Y] FR 2794275 A1 20001201 - MAN B & W DIESEL AG [DE]
- [Y] NL 8800916 A 19881116 - RINNAI KK
- [Y] DE 19612987 A1 19960926 - VAILLANT JOH GMBH & CO [DE]
- [A] DE 29821890 U1 20000420 - RUHLAND MANFRED [DE]
- [A] DE 9011555 U1 19901220
- [A] WO 8000167 A1 19800207 - ANDERSSON J [CH], et al

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 RS

DOCDB simple family (publication)

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