

Title (en)  
COMBUSTION DEVICE

Title (de)  
VERBRENNUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMBUSTION

Publication  
**EP 3470750 A1 20190417 (EN)**

Application  
**EP 18199343 A 20181009**

Priority  
JP 2017197338 A 20171011

Abstract (en)  
A combustion device includes a combustion housing (21), a heat exchanger (12), and a burner support frame (32) for supporting a plurality of burners (11), wherein a side plate-inner gap (S3) through which air flows is defined between an outermost burner (11E) and a support frame side plate (43), a side plate-outer gap (S4) through which air flows is defined between the support frame side plate (43) and a side wall (212), the side plate-outer gap (S4) has a width wider than the side plate-inner gap (S3), and the support frame side plate (43) extends further upward than an upper end portion of the outermost burner (11E).

IPC 8 full level  
**F24H 1/00** (2006.01); **F23C 5/02** (2006.01); **F23D 14/04** (2006.01); **F23D 23/00** (2006.01)

CPC (source: CN EP)  
**F23C 5/02** (2013.01 - EP); **F23D 14/045** (2013.01 - EP); **F23D 23/00** (2013.01 - EP); **F24H 1/145** (2013.01 - CN); **F24H 1/40** (2013.01 - EP); **F24H 9/0005** (2013.01 - CN); **F24H 9/1836** (2013.01 - CN EP); **F23D 2210/00** (2013.01 - EP)

Citation (applicant)  
JP H0596739 U 19931227

Citation (search report)  
• [X] US 2016282011 A1 20160929 - UMAKOSHI RYOSUKE [JP]  
• [A] CN 1847729 A 20061018 - RINNAI KK [JP]  
• [A] JP 3403534 B2 20030506

Cited by  
US2018209640A1; US10571120B2

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 3470750 A1 20190417**; **EP 3470750 B1 20200930**; CN 109654720 A 20190419; CN 109654720 B 20211008; JP 2019070492 A 20190509

DOCDB simple family (application)  
**EP 18199343 A 20181009**; CN 201811071031 A 20180913; JP 2017197338 A 20171011