

Title (en)
BURNER ARRANGEMENT WITH RESONATOR

Title (de)
BRENNERANORDNUNG MIT RESONATOR

Title (fr)
SYSTÈME DE COMBUSTION AVEC RÉSONATEUR

Publication
EP 3117148 B1 20180606 (DE)

Application
EP 15719643 A 20150417

Priority
• DE 102014209446 A 20140519
• EP 2015058407 W 20150417

Abstract (en)
[origin: WO2015176887A1] The invention relates to a burner arrangement (1) having a combustion chamber (2), a multiplicity of mixing ducts discharging into the combustion chamber (2), in which ducts combustion air and fuel introduced during proper operation are mixed, and at least one resonator which has a defined resonator volume and resonator openings, characterized in that the mixing ducts consist of mixing tubes (5) which extend axially through an annular space (12) defined between a tubular outer wall (8), a tubular inner wall (9) arranged with the radial separation from the outer wall (8), an annular end plate (10) arranged upstream and an annular end plate (11) arranged downstream, wherein the end plates (10, 11) are provided with through openings (16, 23) which receive and/or prolong the mixing tubes (5), in that the resonator openings of the at least one resonator are designed as air ducts (24) that extend through the downstream end plate (11), and in that the resonator volume of the at least one resonator is formed by at least one part of the annular space (12).

IPC 8 full level
F23R 3/10 (2006.01); **F23M 20/00** (2014.01); **F23R 3/28** (2006.01); **F23R 3/42** (2006.01)

CPC (source: CN EP US)
F23M 20/005 (2015.01 - US); **F23R 3/10** (2013.01 - CN EP US); **F23R 3/286** (2013.01 - CN EP US); **F23R 3/42** (2013.01 - US); **F23R 2900/00013** (2013.01 - US); **F23R 2900/00014** (2013.01 - CN EP US)

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

DOCDB simple family (publication)
WO 2015176887 A1 20151126; CN 106461222 A 20170222; CN 106461222 B 20190315; EP 3117148 A1 20170118; EP 3117148 B1 20180606; US 10605457 B2 20200331; US 2017082287 A1 20170323

DOCDB simple family (application)
EP 2015058407 W 20150417; CN 201580025974 A 20150417; EP 15719643 A 20150417; US 201515310648 A 20150417