

Title (en)  
DEVICE AND METHOD FOR IMPROVING COMBUSTION

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR VERBESSERTEN VERBRENNUNG

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE COMBUSTION AMÉLIORÉE

Publication  
**EP 3227547 A1 20171011 (DE)**

Application  
**EP 15807619 A 20151202**

Priority  
• DE 102014117799 A 20141203  
• EP 2015078411 W 20151202

Abstract (en)  
[origin: WO2016087547A1] Disclosed are a device and a method which allow the combustion in a combustion chamber (BR) of a furnace or an internal combustion engine to come closer to being complete. In order to be able to do so, the gaseous fuel-air mixture or one of the components thereof is enriched with a suitable concentration of radicals and ions by means of a plasma generator (PG) before being introduced into the combustion chamber (BR).

IPC 8 full level  
**F02M 27/04** (2006.01); **F23K 5/08** (2006.01); **H01L 41/107** (2006.01)

CPC (source: CN EP KR US)  
**F02M 27/042** (2013.01 - CN EP KR US); **F23K 5/08** (2013.01 - EP KR US); **H05H 1/2475** (2013.01 - CN EP KR US);  
**H05H 1/2481** (2021.05 - CN EP KR); **F23C 2900/99005** (2013.01 - EP KR US); **H05H 1/2481** (2021.05 - US)

Citation (search report)  
See references of WO 2016087547A1

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)  
**WO 2016087547 A1 20160609**; CN 107278240 A 20171020; DE 102014117799 A1 20160609; DE 202015009733 U1 20190826;  
EP 3227547 A1 20171011; JP 2018503018 A 20180201; KR 20170105495 A 20170919; US 10487784 B2 20191126;  
US 2017328314 A1 20171116

DOCDB simple family (application)  
**EP 2015078411 W 20151202**; CN 201580075436 A 20151202; DE 102014117799 A 20141203; DE 202015009733 U 20151202;  
EP 15807619 A 20151202; JP 2017530039 A 20151202; KR 20177017622 A 20151202; US 201515532989 A 20151202