

Title (en)  
AN ARRANGEMENT FOR COMBUSTING PURGE GAS AND A METHOD THEREOF

Title (de)  
ANORDNUNG ZUR VERBRENNUNG VON SPÜLGAS UND VERFAHREN DAFÜR

Title (fr)  
AGENCEMENT DE COMBUSTION DE GAZ DE PURGE ET PROCÉDÉ ASSOCIÉ

Publication  
**EP 4060230 A1 20220921 (EN)**

Application  
**EP 21163612 A 20210319**

Priority  
EP 21163612 A 20210319

Abstract (en)  
An arrangement (100) and a method for combusting purge gas originating from an ammonia fuel system (108) fueling an ammonia fueled engine (112), the arrangement (100) comprising: a boiler system (102) comprising: a burner (104), a fuel inlet (111) configured to supply a fuel and thereby sustain a support flame in the burner (104), and a purge gas inlet (121) being configured to intermittently receive purge gas from the ammonia fueled engine (112) and supply the purge gas to the burner (104), the purge gas comprising a mixture of ammonia and inert gas, wherein the burner (104) is configured to combust the ammonia with the support flame.

IPC 8 full level  
**F23G 7/06** (2006.01); **F23G 5/02** (2006.01)

CPC (source: EP KR)  
**F23C 1/08** (2013.01 - KR); **F23G 5/02** (2013.01 - EP KR); **F23G 7/065** (2013.01 - EP KR); **F23K 5/002** (2013.01 - KR); **F23Q 9/00** (2013.01 - KR); **F23G 2204/103** (2013.01 - EP KR); **F23G 2209/14** (2013.01 - EP KR)

Citation (applicant)  
CN 109140496 A 20190104 - HUBEI SANNING CHEMICAL IND CO LTD

Citation (search report)  
• [XAI] US 2014248202 A1 20140904 - BETLEM MAARTEN [NL], et al  
• [XAI] US 4519993 A 19850528 - MCGILL EUGENE C [US], et al  
• [A] US 3985494 A 19761012 - CHILDREE HERMAN TRAVIS  
• [A] US 5284438 A 19940208 - MCGILL EUGENE C [US], et al  
• [A] JP 2013257123 A 20131226 - HATANAKA TAKESHI  
• [A] US 2011265455 A1 20111103 - HIROTA SHINYA [JP], et al

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 4060230 A1 20220921**; **EP 4060230 B1 20240821**; CN 116981883 A 20231031; JP 2024508927 A 20240228; KR 20230156369 A 20231114; TW 202248569 A 20221216; TW I826962 B 20231221; WO 2022194804 A1 20220922

DOCDB simple family (application)  
**EP 21163612 A 20210319**; CN 202280018912 A 20220315; EP 2022056591 W 20220315; JP 2023553688 A 20220315; KR 20237033973 A 20220315; TW 111109898 A 20220317