

Title (en)

COOKING OVEN HEATED BY PREMIXED GAS

Title (de)

MIT VORGEMISCHTEM GAS BEHEIZTER BACKOFEN

Title (fr)

FOUR DE CUISSON CHAUFFÉ PAR DU GAZ PRÉMÉLANGÉ

Publication

**EP 4170238 A1 20230426 (EN)**

Application

**EP 22202933 A 20221021**

Priority

IT 202100027188 A 20211022

Abstract (en)

The premixed gas firing kiln (1) comprises:- at least one firing chamber (3);- at least one heat assembly (4), arranged inside the firing chamber (3), adapted to heat it and comprising:- at least one combustion chamber (6);- at least one burner assembly (21, 22), arranged inside the combustion chamber (6) and provided with at least one burner head (20) and with feeding means (203, 205) for feeding the burner head (20) with the premixed fuel;wherein:- the burner head (20) comprises at least one receiving chamber (216) of the premixed fuel extending substantially centered along a direction of centering (X);- the feeding means (203, 205) comprise at least one feeding pipe (205), connected in a fluid-operated manner to the receiving chamber (216), and extending along a direction of extension (Y) substantially transverse to the direction of centering (X), so as to introduce the premixed fuel inside the receiving chamber (216) in a turbulent manner.

IPC 8 full level

**F24C 3/08** (2006.01); **F23D 14/02** (2006.01); **F23D 14/58** (2006.01)

CPC (source: EP)

**F23D 14/02** (2013.01); **F23D 14/58** (2013.01); **F24C 3/087** (2013.01); **F24C 15/322** (2013.01); **F23C 2201/30** (2013.01); **F23D 2900/14021** (2013.01); **F23D 2900/14701** (2013.01)

Citation (search report)

- [Y] US 5636622 A 19970610 - URCELAY AMONDARAIN EUGENIO [ES], et al
- [Y] CN 206222308 U 20170606 - JIANGSU FLAME ENV TECH CO LTD
- [A] WO 2017109717 A1 20170629 - SATENGINEERING S A S DI FRANCESCO D'URSI & C [IT]
- [A] US 9447967 B2 20160920 - LAM KWONG YUNG [HK]
- [A] US 5879148 A 19990309 - CHENG ROBERT K [US], 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4170238 A1 20230426**; IT 202100027188 A1 20230422

DOCDB simple family (application)

**EP 22202933 A 20221021**; IT 202100027188 A 20211022