

Title (en)
COMBUSTION DEVICE

Title (de)
VERBRENNUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE COMBUSTION

Publication
EP 3617592 A1 20200304 (EN)

Application
EP 19193540 A 20190826

Priority
TW 107130609 A 20180831

Abstract (en)
A combustion device (100) includes at least one burner (30), a supporting assembly (10), and an infrared ray generation mesh (20). The at least one burner (30) includes a flame outlet (32); the front cover (12) of the supporting assembly (10) includes a flat cover plate (121) which has a plurality of holes (124); the infrared ray generation mesh (20) which is disposed on the supporting assembly (10) is corresponding to the flame outlet (32); the flames generated by the flame outlet (32) heat the infrared ray generation mesh (20) and the cover plate (121). The intensity of heating can be effectively increased by generating open fire and infrared rays and uniformly heating could be realized as well.

IPC 8 full level
F23D 14/08 (2006.01); **F23D 14/14** (2006.01); **F23D 14/84** (2006.01)

CPC (source: EP US)
F23D 14/08 (2013.01 - EP); **F23D 14/149** (2021.05 - EP US); **F23D 14/151** (2021.05 - EP US); **F23D 14/84** (2013.01 - EP);
F23D 2203/101 (2013.01 - EP); **F23D 2203/102** (2013.01 - EP)

Citation (applicant)
TW M543657 U 20170621 - AETHER PREC TECH INC [TW]

Citation (search report)
• [X] DE 10222450 A1 20030821 - VOITH PAPER PATENT GMBH [DE]
• [X] US 2016298838 A1 20161013 - KARKOW DOUGLAS W [US], et al
• [A] EP 0221686 A1 19870513 - THORN EMI APPLIANCES [GB]

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 3617592 A1 20200304; **EP 3617592 B1 20241023**; TW 202010413 A 20200316

DOCDB simple family (application)
EP 19193540 A 20190826; TW 107130609 A 20180831