

Title (en)
FAN DEVICE

Title (de)
LÜFTERVORRICHTUNG

Title (fr)
DISPOSITIF DE VENTILATION

Publication
EP 3643926 A1 20200429 (EN)

Application
EP 19155825 A 20190206

Priority
TW 107137959 A 20181026

Abstract (en)
A fan device includes a casing unit (3) and a fan impeller unit (4) mounted in the casing unit (3). The casing unit (3) includes a casing body (31) formed with a receiving space (310) and an air outlet port (318), a porous plate (32) formed with a plurality of through holes (329) and is disposed in the receiving space (310) to divide the receiving space (310) into an air-flowing room (301) and a noise-reduction room (302), and an air-entering tube (33) in spatial communication with the air-flowing room (301) . The fan impeller unit (4) is disposed in the air-flowing room (301) and rotatable to generate airflow partially flowing from the air-flowing room (301) into the noise-reduction room (302) through the through holes (329).

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 17/167 (2013.01 - US); **F04D 29/4226** (2013.01 - EP); **F04D 29/441** (2013.01 - US); **F04D 29/661** (2013.01 - US);
F04D 29/665 (2013.01 - EP)

Citation (search report)
• [XY] GB 2284448 A 19950607 - MITSUBISHI ELECTRIC CORP [JP]
• [Y] CN 207920914 U 20180928 - DELTA ELECTRONICS INC
• [X] US 2010189547 A1 20100729 - SHIRAHAMA SEIJI [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 3643926 A1 20200429; **EP 3643926 B1 20211222**; TW 202016434 A 20200501; TW I735813 B 20210811; US 2020132080 A1 20200430

DOCDB simple family (application)
EP 19155825 A 20190206; TW 107137959 A 20181026; US 201916663932 A 20191025