

Title (en)
AIR IONIZATION SYSTEM

Title (de)
LUFTIONISIERUNGSSYSTEM

Title (fr)
SYSTÈME D'IONISATION D'AIR

Publication
EP 4146988 A1 20230315 (EN)

Application
EP 21730002 A 20210507

Priority

- US 202063021197 P 20200507
- US 202163138290 P 20210115
- US 2021031429 W 20210507

Abstract (en)

[origin: WO2021226550A1] An air ionization unit is provided to ionize air to remove particulates and to release cleaned air. Air moves into the air ionization unit where it may be first filtered by an air intake filter. The air is moved, preferably by a fan, into contact with an ion generator, where the air is ionized. One or more (such as two) other fans may be used to provide airflow to (1) at least partially remove ions emanating from the air that has been exposed to the ion generator, and (2) to push the cleaned air through one or more ozone filters and out of the air ionization unit. The air ionization unit may also include an outgoing air filter, and one or more doors to access the air intake filter and/or the air ionization unit.

IPC 8 full level

F24F 8/108 (2021.01); **B60H 1/00** (2006.01); **F24F 8/26** (2021.01); **F24F 8/30** (2021.01); **F24F 8/40** (2021.01); **F24F 13/20** (2006.01); **F24F 110/10** (2018.01); **F24F 110/20** (2018.01); **F24F 110/72** (2018.01); **F24F 110/74** (2018.01); **H01T 23/00** (2006.01)

CPC (source: EP GB)

B60H 3/0078 (2013.01 - EP GB); **F24F 8/108** (2021.01 - EP GB); **F24F 8/30** (2021.01 - EP GB); **F24F 8/40** (2021.01 - EP GB); **F24F 13/20** (2013.01 - EP GB); **H01T 23/00** (2013.01 - EP GB); **F24F 2110/10** (2018.01 - EP GB); **F24F 2110/20** (2018.01 - EP GB); **F24F 2110/72** (2018.01 - EP GB); **F24F 2110/74** (2018.01 - EP GB); **Y02B 30/70** (2013.01 - EP 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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021226550 A1 20211111; AU 2021268213 A1 20230119; CA 3182518 A1 20211111; CN 116057321 A 20230502; EP 4146988 A1 20230315; GB 202217426 D0 20230104; GB 2610507 A 20230308; GB 2610507 B 20240814; JP 2023501840 A 20230120; JP 7449296 B2 20240313; MX 2022013909 A 20230301

DOCDB simple family (application)

US 2021031429 W 20210507; AU 2021268213 A 20210507; CA 3182518 A 20210507; CN 202180048700 A 20210507; EP 21730002 A 20210507; GB 202217426 A 20210507; JP 2021539951 A 20210507; MX 2022013909 A 20210507