

Title (en)

CENTRIFUGAL WET TYPE AIR CLEANER UTILIZING A SPIN VAPORIZER AND A SPIRAL ON THE BASIS OF A LABYRINTH EFFECT

Title (de)

ZENTRIFUGALNASSLUFTREINIGER MIT SCHLEUDERVERDAMPFER UND SPIRALE AUF DER BASIS EINES LABYRINTHEFFEKTS

Title (fr)

PURIFICATEUR D'AIR DE TYPE HUMIDE CENTRIFUGE UTILISANT UN VAPORISATEUR ROTATIF ET UNE SPIRALE SUR LA BASE D'UN EFFET LABYRINTHE

Publication

**EP 1843827 A4 20090415 (EN)**

Application

**EP 06702914 A 20060123**

Priority

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Abstract (en)

[origin: WO2006112590A1] This invention relates to a wet type centrifugal "filter less" air cleaner utilizing a labyrinth effect on the basis of spiral grooves for generating vortex flow, thus the separation of particular dust, mist can be absolutely, above 99.9% purified from air with the difference of specific gravity, 1: 1000 between air and water under centrifugal force, 10000G-80000G after collecting pollution substances from air with an aqua viscosity of water mist. An wet type air cleaner utilizing a centrifugal impeller comprising: spiral grooves (416), a spin vaporizer (401) for large size, an ultra sonic vaporizer (482) for small size, an electric motor (433) with a centrifugal impeller 408, a drain trap (441) and humidity controller (442) installed on an exit pipe (432) etc. Therefore centrifugal wet type air cleaner make fresh air efficiently to be carried out by centrifugal force without using filters in the field of industrial cleanroom, hospital, asepsis labotory, home applicances, military use for purifying poison gas, exhaust gas cleaner for automobiles and an industrial burner etc.

IPC 8 full level

**B01D 45/10** (2006.01)

CPC (source: EP)

**B01D 45/14** (2013.01); **B01D 47/085** (2013.01)

Citation (search report)

- [A] GB 920203 A 19630306 - RUHRCHEMIE AG
- [A] US 3358413 A 19671219 - KALIKA PETER W
- See references of WO 2006112590A1

Cited by

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