CERTIFICATE OF COMPLIANCE

Certificate Number	UL-US-L513435-11-01600202-0
Report Reference	E513435-20200610
Date	6-Nov-2020
Issued to:	Suzhou National Purification Technology Co., Ltd. Block F, No 58 Yangdong Road, Suzhou Industrial Park Suzhou , Jiangsu, China 215100
This is to certify that representative samples of	AEDX - Air-filtering Appliances, Fixed and Stationary See Addendum Page for Product Designation(s). Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	Electric Fans-UL507
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

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Certificate Number UL-US-L513435-11-01600202-0
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Date 6-Nov-2020

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
Glirafan	Ceiling-Inserted Air Fan Filter Unit

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

CERTIFICATE

ATTESTATION
CERTIFICATE OF MACHINERY DIRECTIVE

Technical file of the company mentioned below has been observed
2006/42/EC Machinery Directive has been taken as references for these processes

Company Name	: Suzhou National Purification Technology Co., Ltd.
Company Address	: Block F, No 58, Yangdong Road, Suzhou Industrial Park, Jiangsu, China
Related Directives and Annex	: Machinery Directive 2006/42/EC
Related Standards	: EN 60204-1:2018; EN ISO 12100:2010
Product Name	: FFU
Report No and Date	: TCF-03-2020385-MD
Product Brand/Model/Type	: 4x4

Certificate Number	: M.2021.206.C62303
Initial Assessment Date	: 23.02.2021
Registration Date	: 24.02.2021
Reissue Date/No	: -
Expiry Date	: 23.02.2026

UDEM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be noticed in case of any changes on the product(s)

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Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76
E-mail: info@udemltd.com.tr www.udem.com.tr

ISO9001

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.：04622Q11610R1S

We hereby certify that the organization:

Suzhou National Purification Technology Co., Ltd.

Unified social credit code: 91320594MA1MBNFM73

is in conformity with Quality Management System Standard:

GB/T19001-2016 / ISO9001:2015

The certificate is valid to the following product(s)/service:

Production of Air Purification Equipment (FFU Air Filter Unit and Air Filter)

Registration Address: Building F, No. 58, Yangdong Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, P. R. China

Physical Address: 4th Floor, Building 12, Shengteng Industrial Park, No. 8, Ruyuan Road, Xiangcheng District, Suzhou City, Jiangsu Province, P. R. China (Operation Management Place); No. 69, Shadong Road, Xinzhuang Town, Changshu City, Jiangsu Province, P. R. China (Production Place)

Date of Issue：2022-03-17

Date of Expiry：2025-03-16

Date of Initial Issue:2019-03-18

Issued By

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管理体系
MANAGEMENT SYSTEM
CNAS C046-M

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The effectiveness of the Certificate is subject to QR Code in the lower left corner.
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or search the website of certification body:www.hicchina.com.cn,
Note:Certified client shall receive surveillance audit within the validity period, the certificate shall only be valid when used in conjunction with the Notice Letter of Annual Surveillance Certification Decision.Surveillance conclusion notice and audit report can obtain from HIC wedsite:www.hicchina.com.cn.

Beijing Head International Certification Co., Ltd.

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ISO14001

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.：04622E10736R1S

We hereby certify that the organization:

Suzhou National Purification Technology Co., Ltd.

Unified social credit code: 91320594MA1MBNFM73

is in conformity with Environmental Management System Standard:

GB/T24001-2016 / ISO14001:2015

The certificate is valid to the following product(s)/service:

Production and Related Management Activities of Air Purification Equipment (FFU Air Filter Unit and Air Filter)

Registration Address: Building F, No. 58, Yangdong Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, P. R. China

Physical Address: 4th Floor, Building 12, Shengteng Industrial Park, No. 8, Ruyuan Road, Xiangcheng District, Suzhou City, Jiangsu Province, P. R. China (Operation Management Place); No. 69, Shadong Road, Xinzhuang Town, Changshu City, Jiangsu Province, P. R. China (Production Place)

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Beijing Head International Certification Co., Ltd.

Address:Room 701,Building 7,No.19,Beiyuan East Road ,Chaoyang District,Beijing.P.R.China(100012)

ISO45001

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.：04622S10732R1S

We hereby certify that the organization:

Suzhou National Purification Technology Co., Ltd.

Unified social credit code: 91320594MA1MBNFM73

is in conformity with Occupational Health Safety Management System Standard: GB/T45001-2020 / ISO45001:2018

The certificate is valid to the following product(s)/service:

Production and Related Management Activities of Air Purification Equipment (FFU Air Filter Unit and Air Filter)

Registration Address: Building F, No. 58, Yangdong Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, P. R. China

Physical Address: 4th Floor, Building 12, Shengteng Industrial Park, No. 8, Ruyuan Road, Xiangcheng District, Suzhou City, Jiangsu Province, P. R. China (Operation Management Place); No. 69, Shadong Road, Xinzhuang Town, Changshu City, Jiangsu Province, P. R. China (Production Place)

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Beijing Head International Certification Co., Ltd.

Address:Room 701,Building 7,No.19,Beiyuan East Road,Chaoyang District,Beijing,P.R.China (100012)

US011571647B2

(12) **United States Patent**
Chen et al.

(10) **Patent No.: US 11,571,647 B2**
(45) **Date of Patent: Feb. 7, 2023**

(54) **GEL-SEALED AIR SUPPLY BOX**

(71) Applicant: **Suzhou Guoli Clean Technology Co., Ltd.**, Jiangsu (CN)

(72) Inventors: **Yun Chen**, Suzhou (CN); **Shuixing Li**, Suzhou (CN)

(73) Assignee: **SUZHOU GUOLI CLEAN TECHNOLOGY CO., LTD.**, Suzhou (CN)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 357 days.

(21) Appl. No.: **16/875,022**

(22) Filed: **May 15, 2020**

(65) **Prior Publication Data**

US 2021/0354070 A1 Nov. 18, 2021

(51) **Int. Cl.**
B01D 46/00 (2022.01)
B01D 46/10 (2006.01)
B01D 46/42 (2006.01)

(52) **U.S. Cl.**
CPC ***B01D 46/10*** (2013.01); ***B01D 46/0005*** (2013.01); ***B01D 46/0041*** (2013.01); ***B01D 46/4227*** (2013.01)

(58) **Field of Classification Search**
CPC B01D 46/00; B01D 46/10; B01D 46/0005; B01D 46/0041; B01D 46/0057–0083
USPC ..... 55/385.1, 410.1, 418.1, 467.1; 165/95, 165/303, DIG. 11, DIG. 85, DIG. 10; 62/303, 104.34
See application file for complete search history.

(56) **References Cited**

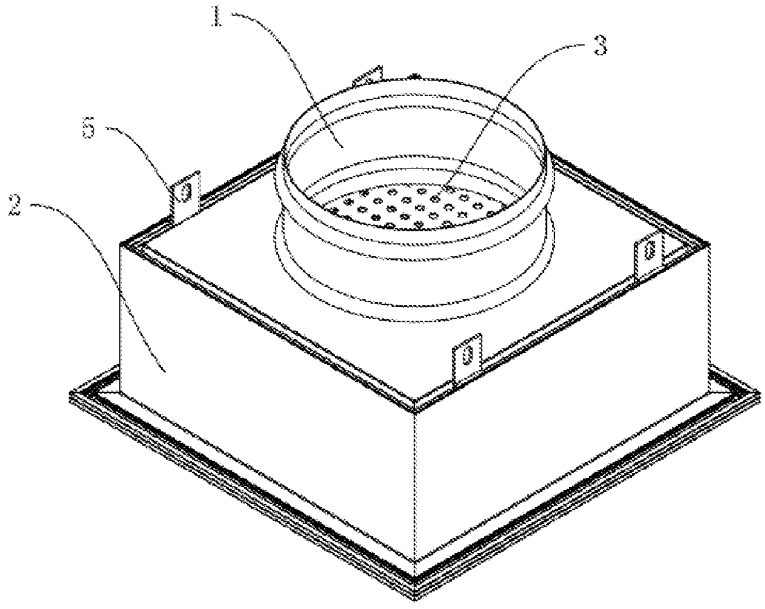
U.S. PATENT DOCUMENTS

5,417,610	A *	5/1995	Spransy	F24F 3/167 55/385.2
8,529,653	B2 *	9/2013	Sakashita	F24F 13/28 55/385.2
8,734,553	B2 *	5/2014	Sakashita	F24F 13/20 55/296
2002/0134061	A1 *	9/2002	McGill	E04B 9/02 55/385.2
2005/0076625	A1 *	4/2005	Mahan	F02M 35/024 55/486
2008/0086994	A1 *	4/2008	Descotes	F24F 1/005 55/471
2010/0077923	A1 *	4/2010	Lewis	B01D 46/62 55/354

* cited by examiner

Primary Examiner — Minh Chau T Pham

(57) **ABSTRACT**

A gel-sealed air supply box includes an air inlet and a box body, wherein the box body is internally provided with a filter. A plurality of filter profiles that are sequentially connected are arranged on the inner side surfaces of the box body, and a corner dust generating pipe is arranged between two filter profiles. A dust distributing pipe is arranged at the top end of the filter profile, and the dust distributing pipe is communicated with the corner dust generating pipe. A plurality of dust holes are formed in the top end of the dust distributing pipe. According to the disclosure, dust can be uniformly generated and a more precise detection result can be achieved.

4 Claims, 8 Drawing Sheets