Powerful filtering, excellent permeability AIQUEEN NANO MASK

Masks are a must! Introducing easy-to-breathe mask with exceptional filter







Made with our own proud technology-AirQUEEN Nano Mask

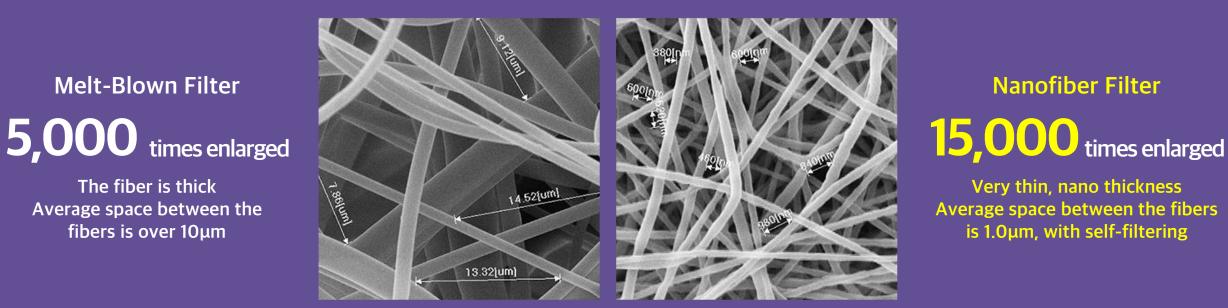
- Nanofiber Filter Manufactured by: LEMON Co., Ltd.
- Mask Manufacture & Distribution: TOPTEC Co., Ltd.

Breathing New Technology, Nanofiber Nanofiber Filter

Nano fibers are only 1 nanometer, 1 billionth of a meter, in thickness Nanofiber is a new material made by building these fibers sterically for a fishnet structure that has better permeability, blockability, and durability than any fiber ever invented.



Nanofiber Filter has a different fiber thinkness / fiber thinkness / filtering method from the existing electrostatic filter



The Nanofiber Filter from LEMON Co., ltd is a cutting-edge technology applied to global brands and products

It is exclusively distributed to THE NORTH FACE as the brand FUTURELIGHT. It is also used for RENERGIE mask pack from LANCOME that touches the skin directly. This technology is used for smart devices that sends sounds but needs protection against dust and moisture.



We asked professor Kim Iksu, the most renowned professor in the fiber research area.

What kind of material is Nanofiber?

The thickness of a nano fiber is only a thousandth of a strand of hair. Nanofiber is a material made by building these fibers sterically for a fishnet structure, and nanofiber of 85% processing rate has both permeability and blockability.

The Nanofibers of LEMON have consistent thickness and pore size. This means the ratio of the pores in the general area becomes very high, which is relevant to permeability.

Because it touches the nose and the mouth, this fiber is very appropriate for masks where permeability is important

Long-lasting freshness from morning to evening!

The effectiveness of electrostatic masks decreases with each breath due to the moisture Nanofiber Filter has great permeability, so you can feel fresh even after a long term use

Excellent filtering and permeability of Nanofiber

Nanofiber smart filter blocks pollutants and enables easier breathing

Wearing mask all day causes skin trouble (C Newspaper)

Must wear permeable masks (M Newspaper)

Pimple breaks out due to wearing masks (National Health Insurance Service blog)

If you care about the skin, permeability is even more important.

There is moisture in our respiratory system If a mask has bad permeability, the moisture from within cannot escape, which causes eczema

> If you wear a mask for a long time, you really need a permeable mask

Because we need to wear it all day, we made it lighter.

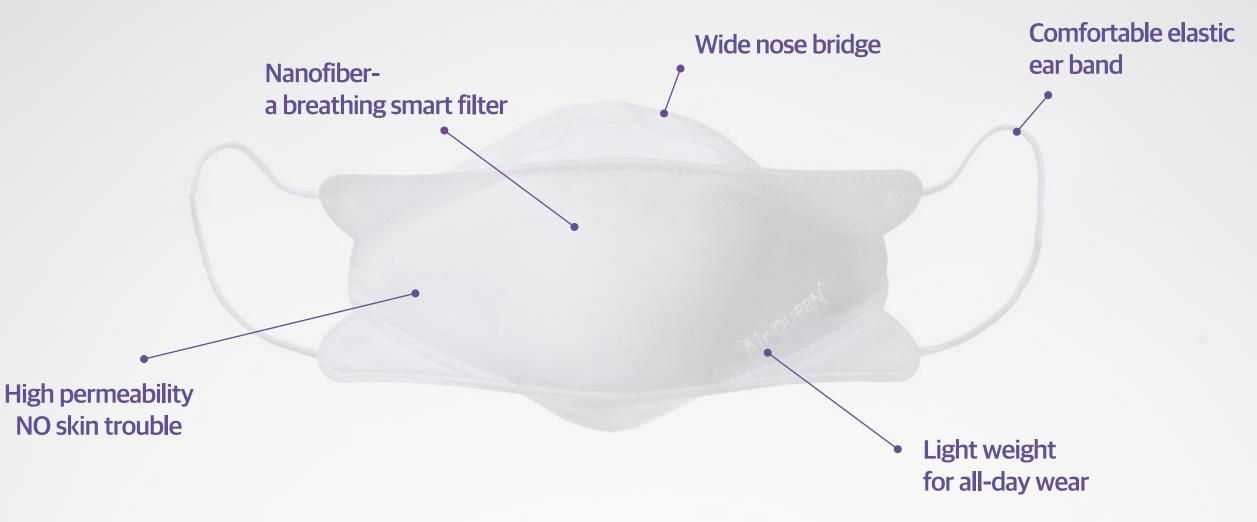
AirQUEEN Nano mask 3.71g

Lighter than a sheet of paper, so you won't even realize wearing it!

it is a sheet of paper = 4.72g is a sheet of paper = 4.72

3D ergonomic design to fit perfectly on all face types.

Nose bridge prevents sliding or fogging up.



Individually wrapped for easy carrying and using

Air

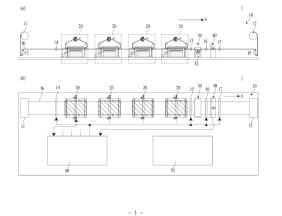
(19) 대한민국특허청(KR) (12) 등록특허공보(B1)	(45) 공고일자 2011년06월09일 (11) 등록번호 10-1040055 (24) 등록일자 2011년06월02일
Dill 5/00 (2006.01) Doll 13/00 (2006.01) B277 40/00 (2011.01) 10 [21] 출린번호 10-2011-0016676 [22] 출린번호 10-2011-0016676 [30] 우신친구왕 2011402월24일 (30) 우신친구왕 2011402월24일 [30] 우신친구왕 10-101212806일 일본(JP) 56) 선행기술조사문련 JP2006052163 A KR1020070026744 A KR1020070026744 A KR102007002784 A	 (73) 특허권과 신숙 다이가무 일본 나가노켓 마쓰모토시 아사히 3쵸데 1만 1고 주식회사 품택 정상북도 구미시 산동면 봉산리 366번지 (72) 발택과 이계환 정상북도 구미시 산동면 봉산리 366 (주) 듬택 김익수 T.3865657나가노핵우예다시토키타3~15~1국립대학 법인신유대학업유학부소속 (74) 대리인
JP2008519175 A 전체 청구항 수 : 총 14 항	오중환 심사관 : 최봉돈

(57) 요 약

노즐 블록을 접지 한 상태에서 컨백터에 고전압을 인가하여 전계 방사를 하는 경우라도, 균일한 품질을 가지는 나노 섬유를 높은 생산성으로 대량생산 하는 것이 가능한 전계방사장치를 제공한다.

킬랙택(150)와, 노출 불룩(110)과, 정정국어 킬랙택(150)에 접속되고, 부친국어 노출 불북(110)에 접속되는 독시 에 해당 관리국의 전위가 접거 진위로 떨어진 전원 장직(150)를 구대하는 정직책사장직(2021AL, 킬랙택(150)를 돌러하는 위치에 퇴전 자유롭게 배설된 절연성 또한 다공성의 앱들리스 벨트로 이루어지는 보로 벨트(172) 및 해 당 보호 벨트(172)를 장취(370)를 수가도 구대하는 전쟁한 지원 속도로 회전시키는 보호 벨트 구공장치(174)를 가지는 보호 벨트(172)를 관치도 구대하는 전개방사장치.

대표도



- Patent Registration no. : 10-1040055
- Name of Invention:
 - An electrospinning device and an apparatus for manufacturing nano-fiber

The Nanofiber Filter of AirQUEEN Nano Mask is manufactured with patent technology.

- Cutting-edge technology that mass-produces consistent nano fiber filters
- Selected as one of 100 technologies to lead Korea in 2020
- Approximately 50 patents around the world

Nanofiber Filter with excellent permeability and perfect protection from water and dust, used in AirQUEEN Masks, is the fruit of LEMON, a company listed through KOSDAQ, researching and developing nano fiber technology for 14 years





(가) 더 근 본사율공장) 경상북도 구미시 산동면 산호대로 1105-65 데구공장) 대구광역시 달세구 성서로64급 26

적인서트 주식회사는 위 회사의 실사급적과 인증범위가 아래의 통질경영시스템 요구사형을 모두 등록하고 있음을 검증하고 인증 등록을 승인하였습니다.

ISO 9001:2015

인증법위

2차 전지 분리막, 나노화이버 및 나노 전자과 차단 부풍류의 개발 및 제조 EMI 차페시트의 제조

인증민호 : KorQ-163879

Scherne Manag

과초 인증임 : 2012년 11월 30일 민종 승만임 : 2018년 11월 23일 인증 만류명 : 2007년 11월 26일

DAkks

Back Wook.



GERMAN CERT Environmental Management System Certificate

CERT

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The Nanofiber Filter of AirQUEEN Mask is produced in a clean and sanitary facility.

Proven suitable for ISO 9001 quality management system

• Proven suitable for ISO 14001 environment management system

The Nanofiber Filter used for AirQUEEN Masks is produced in a facility approved for environment management system, so it is safe and sanitary.



Test Report No. F650101/LF-CTSAYGA18-00327 Issued D

Issued Date: 2018. 01. 16. Page 1 of 17

LEMON CO., LTD. 1105-05 Sanho-daero, Sandong-myeon Gumi-si, Gyeongbuk Korea



The following sample(s) was/were submitted and identified by/on behalf of the client as:

SGS File No.	: AYGA18-00327
Product Name	: Nano membrane (sanitary pad)
Item/Part Name	: N/A
Received Date	: 2018.01.09
Test Period	: 2018.01.09. ~ 2018.01.16.
Test Requested	One hundred-Severcy four (174) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on July 7, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH. Eight (8) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Sep 5, 2017
Test Method	regarding Regulation (EC) No 1907/2006 concerning the REACH. Please refer to next pape(s).
Test Result(s)	: Please refer to next page(s).
Summary	: According to the specified scope and evaluation screening, the test results of SVHC are \$0.1% (who) in the articles of the submitted sample.

SGS Korea Co., Ltd



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Organic solvent and compound not detected The Nanofiber Filter of AirQUEEN Mask is approved by European SGS, REACH, and RoHS, and therefore is safe.

- Cadmium N/D
- Lead N/D
- Mercury N/D
- Hexavalent chromium N/D
- Other 182 categories N/D

Organic solvent and compound not detected Proven that metal material and harmful compound were not detected. AirQUEEN Nano Mask is an industrial product that passed the tests of KEMTI and is [currently in process] of being approved by the MFDS **AirQUEEN Nano Mask**

is a product that applied for the KF approval at the MFDS early April of 202 after passing the test done by KEMTI, a testing institute designated by the MFDS.

It is manufactured with the same technology as Technoweb Disposable dustproof mask (KF94) from FTENE, the subsidiary company of TOPTEC, but if the manufacturer or brand is changed, the approval from the MFDS needs to be renewed, and until then, it cannot be publically distributed.

However, after the KF certification, 80% of the supply will be distributed as public, so there might be a shortage

* Korea Environment Merchandise Testing Institute, KEMTI

₩.68.59223 시험·검사성적서	성적시면호 : MY19 O 시험결과			시험성적서 생작사변호 : ₩19-0009 이 시표사전
(4월~1956년 1999-9000) 이 일 관 요.: 10020013 (2월 8월 - 10월 8월 - 10월 2월 20일 10월 2 (2월 2월 2월 4월 2월	시한권사항육 단 성성	문 위 기 준 이 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가	시험·검사 결과 형목관정 이상 요즘 직접	
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Quality Indication According to Electric Products and Household Safety Law

- Product: AirQUEEN Mask
- Manufactured in: Korea
- Manufacturer: TOPTEC
- Distributor: TOPTEC
- Weight: 4.38g
- Product Type: Mask
- Expiry Date: 36 months
- Storage Directions: closed container, in room temperature (1~30°C)
- Entire Ingredients: felt (outer fabric, filter, inner fabric), plastic sheath wire, polypropylene ring, nylon strap











AirQUEEN Mask is an industrial product.

AirQUEEN Mask uses the Nanofiber Filter technology of LEMON and is manufactured by TOPTEC. Currently, the MFDS approval is being processed, and when it is approved as sanitation mask, 80% of the product supply will be distributed as public distribution.

Masks are a must! Prepare in advance with AirQUEEN Nano Mask

SOOMLAB is a partner of LEMON that joint-developed the Hyper Purifying Breathing mask that has exclusive sales right online, and is the official distribution and sales company of TOPTEC AirQUEEN Nano Mask.

SOOMLAB and BOOSTERZ are in charge of marketing, distribution, and sales of AirQUEEN Nano Mask.

[AirQUEEN Mask mass purchase inquiry]

Email: m.alfardan@airqueen.com

