

Title (en)

FAN SYSTEM AND METHOD FOR DETERMINING TYPE OF MASK

Title (de)

LÜFTERSYSTEM UND VERFAHREN ZUR BESTIMMUNG DES MASKENTYPS

Title (fr)

SYSTÈME DE VENTILATEUR ET PROCÉDÉ DE DÉTERMINATION DU TYPE DE MASQUE

Publication

EP 4389231 A1 20240626 (EN)

Application

EP 23160802 A 20230308

Priority

CN 2022141201 W 20221222

Abstract (en)

Embodiments of the present disclosure relate to a fan system. The fan system is adapted to be coupled to a mask, and comprises a fan configured to facilitate an airflow passing through a filter material of the mask and a controller configured to control the fan to operate with a drive signal.

The controller is further configured to obtain operation data of the fan driven by a testing drive signal, and determine a type of the mask based on the operation data. In this case, the type is associated with a filtration characteristic of the mask. In accordance with embodiments of the present disclosure, a type of a mask can be automatically identified by the controller based on the operation data of the fan obtained from the fan without additional components, thereby providing a cost saving and design friendly solution.

IPC 8 full level

A62B 18/04 (2006.01); **A62B 18/00** (2006.01); **A62B 18/02** (2006.01)

CPC (source: EP)

A62B 18/006 (2013.01); **A62B 18/02** (2013.01); **A62B 18/045** (2013.01)

Citation (search report)

- [X] US 2020282242 A1 20200910 - VIRR ALEXANDER [AU], et al
- [X] US 2018078798 A1 20180322 - FABIAN JUDIT [SG], et al
- [X] WO 2022049468 A1 20220310 - 3M INNOVATIVE PROPERTIES CO [US]
- [X] US 4905687 A 19900306 - PONKALA JORMA [FI]
- [X] EP 3441100 A1 20190213 - KONINKLIJKE PHILIPS NV [NL]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4389231 A1 20240626

DOCDB simple family (application)

EP 23160802 A 20230308