

Title (en)
USE AND METHOD FOR REDUCING THE VIRAL, BACTERIAL AND FUNGAL SPORE LOAD OR OTHER BIOLOGICAL CONTAMINANTS IN GASES

Title (de)
VERWENDUNG UND VERFAHREN ZUR REDUKTION DER VIRUS-, BAKTERIEN- UND/ODER PILZSPORENBELASTUNG ODER ANDEREN BIOLOGISCHEN KONTAMINATIONEN IN GASEN

Title (fr)
UTILISATION ET PROCÉDÉ DE RÉDUCTION DE LA CONTAMINATION PAR DES VIRUS, DES BACTÉRIES ET/OU DES SPORES FONGIQUES OU D'AUTRES CONTAMINATIONS BIOLOGIQUES DANS DES GAZ

Publication
EP 4126084 A1 20230208 (DE)

Application
EP 21715829 A 20210324

Priority

- DE 102020001896 A 20200324
- DE 102021101099 A 20210120
- EP 2021057598 W 20210324

Abstract (en)
[origin: WO2021191294A1] The present invention relates to the use of an ion exchanger for removing and/or reducing biological contaminants, such as viruses, bacteria and fungal spores, in gases and gas flows, such as ambient air and breathing air, as well as an associated method. In particular embodiments, the ion exchanger is a cation exchanger loaded partially or substantially completely with H⁺ ions, or an anion exchanger loaded partially or substantially completely with OH⁻ ions. In addition or as an alternative, the ion exchanger can be loaded with transition metals ions, such as titanium ions, copper ions and/or silver ions.

IPC 8 full level
A61L 9/14 (2006.01)

CPC (source: EP US)
A61L 9/014 (2013.01 - US); **A61L 9/145** (2013.01 - EP US); **A61L 9/16** (2013.01 - EP); **A61L 9/20** (2013.01 - EP US); **A61L 9/22** (2013.01 - EP US); **A61L 2209/14** (2013.01 - EP US); **A61L 2209/22** (2013.01 - EP US)

Citation (search report)
See references of WO 2021191294A1

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)
DE 102021101099 A1 20210930; EP 4126084 A1 20230208; US 2023105253 A1 20230406; WO 2021191294 A1 20210930

DOCDB simple family (application)
DE 102021101099 A 20210120; EP 2021057598 W 20210324; EP 21715829 A 20210324; US 202117907192 A 20210324