

Title (en)
INSTALLATION LIMITING VIRAL CROSS CONTAMINATION OF PERSONS IN A ROOM AND FILTERING DEVICE FOR SUCH AN INSTALLATION

Title (de)
ANLAGE UM KREUZANSTECKUNG VON MENSCHEN IN EINEM RAUM ZU BEGRENZEN UND FILTERVORRICHTUNG FÜR EINE SOLCHE ANLAGE

Title (fr)
INSTALLATION LIMITANT LA CONTAMINATION CROISEE DE PERSONNES DANS UNE PIECE ET APPAREIL DE FILTRATION POUR UNE TELLE INSTALLATION

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Application
EP 22460003 A 20220111

Priority
PL 43664921 A 20210112

Abstract (en)
The installation limiting the viral cross contamination of persons in a room - especially indoor public places according to the invention is characterized in that it contains at least a filtering device (1) treating breathable air, adapted to draw and filter air from the interior of the room or from the outside of the room, connected to the system distributing treated air (2) individually for each person in the room, whereas, the system distributing treated air (2) consists of at least one main air trunk line (2.1) which via distributive tees (2.3) or distributive crosses (2.4) is connected to the lateral air trunk lines (2.2), whereas, distributive tees (2.5) on lateral trunk lines (2.2) and distributive tees (2.10) and distributive crosses (2.11) on main trunk lines (2.1) are connected to air connection nozzles (2.8) via adjustable valves (2.6)The filtering device (1) treating breathable air is characterized in that it consists of at least a casing (1.1) equipped with at least one air inlet (1.6), (1.7) and at least one treated air outlet (1.8) and a control panel (1.9), whereas, inside the casing (1.1) there is a set of filters which consists of at least an air filter for initial purification (1.3), a blower (1.2), an antivirus air filter (1.4) and a specialist air filter (1.5) containing an absorber with activated charcoal and moreover preferably the device is equipped with agents (1.20) or (1.22) or (1.23) for additional air treatment.

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Citation (search report)

- [X] SE 532486 C2 20100202 - MARTELA OYJ [FI]
- [X] CN 111811079 A 20201023 - SHENZHEN ZSZ CONSTRUCTION GROUP CO LTD
- [X] US 6318113 B1 20011120 - LEVY HANS F [US], et al
- [A] EP 2096033 A1 20090902 - SHIMADZU CORP [JP], et al
- [A] US 2008053126 A1 20080306 - EBIGT WOLFGANG [DE], et al
- [X] CN 108087975 A 20180529 - SHANDONG JIAXING ENVIRONMENTAL PROTECTION SCIENCE & TECH CO LTD
- [X] CN 107062453 A 20170818 - HEFEI MENGFEI ELECTRICAL APPLIANCE CO LTD
- [X] US 2019009912 A1 20190110 - MATSUI SHINGO [JP]
- [X] CN 104633782 A 20150520 - QINGDAO TAIMEI WEIYE ENVIRONMENTAL PROT SCIENCE & TECHNOLOGY CO LTD

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