

Title (en)
AN APPARATUS FOR ENHANCING RELIABILITY OF UVC STERILIZATION

Title (de)
VORRICHTUNG ZUR VERBESSERUNG DER ZUVERLÄSSIGKEIT VON UVC-STERILISATION

Title (fr)
APPAREIL POUR AMÉLIORER LA FIABILITÉ D'UNE STÉRILISATION PAR UVC

Publication
EP 4146287 A1 20230315 (EN)

Application
EP 21725090 A 20210507

Priority
• SE 2050533 A 20200507
• EP 2021062097 W 20210507

Abstract (en)
[origin: WO2021224443A1] An apparatus adapted for UVC radiation operations whereby UVC radiation is emitted onto solid objects (16) or a surface (15), comprising an enclosure (1), having a handle (2) and an axis (3) around which said enclosure is arranged to pivot between an open and closed state, wherein said apparatus further comprises an electrical driver (5), a UVC radiation emitting source (4) arranged on a printed circuit board (PCB) (20) and a control unit (11) arranged inside said enclosure (1) wherein the apparatus further comprises any one or a combination of the following detection components: at least one sensor (6) configured to detect or measure a distance to one or several moving objects, at least one sensor (7) configured to detect or measure a speed of one or several moving objects, at least one sensor (8) configured to detect humidity (H) levels between said solid objects (16) at least one optical sensor (9) configured to monitor pollution (P) conditions of said solid objects (16), wherein said sensors (6, 7, 8, 9) are further configured to send signal to a control unit (11), at least one photo diode (10) configured to measure a level of UVC radiation, further configured to send signals to said control unit (11), at least one phosphorescent label (13) configured to provide a visual indication of UVC radiation; wherein the control unit (11) is configured to control and adapt the level and duration of UVC radiation emitted by said radiation emitter (4) onto said solid objects (16) in response to the signals provided by one or several of the detection components.

IPC 8 full level
A61L 2/10 (2006.01)

CPC (source: EP SE)
A61L 2/10 (2013.01 - EP SE); **A61L 2202/11** (2013.01 - SE)

Citation (search report)
See references of WO 2021224443A1

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)
WO 2021224443 A1 20211111; EP 4146287 A1 20230315; SE 2050533 A1 20211108; SE 545068 C2 20230321

DOCDB simple family (application)
EP 2021062097 W 20210507; EP 21725090 A 20210507; SE 2050533 A 20200507