

Title (en)

DEVICE AND METHOD FOR STERILIZING MEDICAL PRODUCTS BY MEANS OF X-RADIATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR STERILISATION VON MEDIZINPRODUKTEN MITTELS RÖNTGENSTRAHLUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE STÉRILISATION DE PRODUITS MEDICAUX AU MOYEN DU RAYONNEMENT X

Publication

**EP 3952926 A1 20220216 (DE)**

Application

**EP 20720750 A 20200407**

Priority

- DE 102019109210 A 20190408
- EP 2020059906 W 20200407

Abstract (en)

[origin: CA3133881A1] The invention relates to a device comprising a radiation source and preferably a detector, between which a medical product is introduced, wherein the radiation source can be controlled by means of an open-loop and/or closed-loop control device and feedback from the detector or can be controlled by means of a result of dose mapping or a simulation. The method for sterilizing medical products comprises the following steps: introducing a medical product into a sterilization device; irradiating the medical product with a radiation source, preferably an X-radiation source, in the sterilization device; determining the radiation intensity at each position on the medical product; controlling and/or re-adjusting the radiation source according to the relationship, [determined in a reference measurement or simulation and] stored in the control device, between radiation intensity at the detector and minimum dose in the medical product at the corresponding point, such that the medical product is homogeneously irradiated and thus sterilized.

IPC 8 full level

**A61L 2/08** (2006.01)

CPC (source: EP IL)

**A61L 2/0041** (2013.01 - EP IL); **A61L 2/082** (2013.01 - EP IL); **A61L 2202/11** (2013.01 - EP IL); **A61L 2202/14** (2013.01 - EP IL); **A61L 2202/21** (2013.01 - EP IL)

Citation (search report)

See references of WO 2020208025A1

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

DOCDB simple family (publication)

**DE 102019109210 A1 20201008**; CA 3133881 A1 20201015; EP 3952926 A1 20220216; IL 286705 A 20211031; JP 2022528916 A 20220616; WO 2020208025 A1 20201015

DOCDB simple family (application)

**DE 102019109210 A 20190408**; CA 3133881 A 20200407; EP 2020059906 W 20200407; EP 20720750 A 20200407; IL 28670521 A 20210926; JP 2021559668 A 20200407