

Title (en)

METHOD FOR DETERMINING THE EFFECTIVENESS OF A STERILIZATION METHOD FOR A MEDICAL PRODUCT IN A STERILIZER, DATA PROCESSING SYSTEM, COMPUTER PROGRAM PRODUCT, AND MEDICAL PRODUCT

Title (de)

VERFAHREN ZUM ERMITTELN DER WIRKSAMKEIT EINES STERILISATIONSVERFAHRENS FÜR EIN MEDIZINPRODUKT IN EINEM STERILISATIONSGERÄT, DATENVERARBEITUNGSANLAGE, COMPUTERPROGRAMMPRODUKT, UND MEDIZINPRODUKT

Title (fr)

PROCÉDÉ POUR DÉTERMINER L'EFFICACITÉ D'UN PROCÉDÉ DE STÉRILISATION D'UN PRODUIT MÉDICAL DANS UN APPAREIL DE STÉRILISATION, DISPOSITIF DE TRAITEMENT DE DONNÉES, PRODUIT-PROGRAMME D'ORDINATEUR ET PRODUIT MÉDICAL

Publication

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Application

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Abstract (en)

[origin: WO2020249243A1] The invention relates to a method for determining the effectiveness of sterilisation methods for medical products, comprising the following steps: providing a data structure, said data structure representing a grid formed from a plurality of three-dimensional cells; reproducing in said data structure the medical product placed in the sterilization device in such a way that a first plurality of cells of said grid represent a body of said medical product and that a second plurality of cells represent an interior space of the sterilization device which is not occupied by the body of the medical product; reproducing an initial state in said data structure in such a way that each cell of said second plurality of cells has data relating to the temperature prevailing in the cell, which is assigned to the amount of a first medium located in the area of the cell and to the amount of a second medium located in the area of the cell; reproducing step by step changes in temperature, in the amount of the first medium and the amount of the second medium occurring during the sterilization process in each cell of the second plurality of cells, and calculating a reduction in bacterial load in each cell of the second plurality of cells during the sterilization process, taking into account the temperature, the amount of first medium and the amount of second medium prevailing in each step in the respective cell. The invention also relates to a data processing system and to a computer program product for carrying out the method.

IPC 8 full level

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Citation (search report)

See references of WO 2020249276A1

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**DE 102019116013 A1 20201217**; CN 113950251 A 20220118; CN 113950252 A 20220118; EP 3982753 A1 20220420; EP 3982754 A1 20220420; US 2022205014 A1 20220630; US 2022257820 A1 20220818; WO 2020249243 A1 20201217; WO 2020249276 A1 20201217

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