

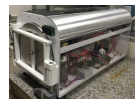
Seamless movement and seamless movement, seamless movement, seamless movement and seamless movement

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Technology description

Introduction

Instruments used in the field of health are highly likely to spread infectious diseases. In order to reduce this problem, sterilization and/or decontamination methods are used at intervals between procedures. An estimate released by the Ministry of Health indicates that approximately 800,000 people in Brazil are infected with hepatitis B virus and 1.5 million with hepatitis C virus.



Source:
CEPOF-
USP

Objective

The utility model relates to a structural arrangement of an antifouling device and/or a sterilization device. In the process of its construction, efforts are made to develop, through widely used methods, a device capable of significantly alleviating the major problems related to the microbial control of instruments and materials: (i) impairing the structural characteristics or accuracy of instruments when heat/temperature sterilizing thermally sensitive materials; (ii) Procedural time (in some cases up to 24 hours) to ensure the elimination of spores; (iii) Concern about environmental issues involving waste. The salient features compared to alternatives for decontamination and/or sterilization are as follows:

- Choosing multifunctional autoclave equipment using different sterilants to obtain a wide range of sterilizing effects and efficient products that can be polymerized into four different types of functions: (i) dry saturated vapor (thermal condensation); (ii) ultraviolet (UV) light; (iii) Ozone (O₃); Ozone (O₃) and ultraviolet (UV);
- The possibility of integrating the vacuum system in order to provide greater penetration of the sterilant where air may be difficult to access.

Stage of development



Application area

Sterilization of materials and instruments in medical, dental, cosmetic, veterinary, pharmaceutical, podiatric and other fields.

Target audience: Industries working in the sterilization equipment sector.

Institution

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