Spanish company with a disinfection technology for food and baby products is looking for partners for its industrialization and commercialization.

- SCHEDA
- APPROFONDIMENTI

Identificativo proposta:TOES20200828001 **RICHIEDI MAGGIORI INFORMAZIONI**

A Spanish company in the electromedical sector has created a prototype for the disinfection of small food items, especially suitable for the disinfection of breastfeeding equipment, but equally effective for the disinfectant treatment of fresh plant foods prior to consumption. The company is looking for a partner in charge of the industrialization and commercialization of the product, for its manufacture and launch to the market.

A Spanish company, founded in 1994, has developed a prototype for the disinfection of food and baby products. The method of disinfection of the device is ozone oxidation (O3). The prototype was created in collaboration with the Microbiology Department of a university, contrasting the results of the system developed until reaching 99% efficiency in viruses, fungi, bacteria and endospores. The technology is based on an ozone pump, with a technology of transmission to the container, which works through a liquid medium, allowing, through it, to achieve an impressive disinfection by oxidation. From the point of view of the applications, these can be directed to objects, as well as to certain foods, arriving at a total disinfection without altering neither its structure, nor its organoleptic properties. The innovation presented is the development of a device for domestic application, simple to use and highly effective for the disinfection of any object or food, which by its peculiarities or any other circumstances, must be treated microbiologically. For example, baby bottles, teats, or from the point of view of food, vegetables, fish, etc. The equipment has three different parts in its development, the module where the ozone generator group is included, transforming it from oxygen, an object container provided with an adjustable opening lid, and a control system based on a microprocessor. In addition to monitoring the correct operation of the generator, it constantly signals the process in which the disinfection is taking place, ending it with a light and acoustic signal that warns the user of its completion. Its design allows that, with the same equipment (including an additional element), the disinfection of both breastfeeding items and vegetables can be carried out. The disinfection system is carried out exclusively through water, in cold and in a very short time (between 10 and 20 seconds), without additives or chemical substances added or raising the temperature of the water dangerously, achieving its objective in a fast, comfortable, simple and safe way. This disinfection device is a substantial improvement over existing products on the market. In addition to the fact that this equipment incorporates a high level of technology, tested efficiency, simplicity and easy assembly, the disinfection process is not based on the old methods of heat or chlorine disinfection, being more effective and safer. The activity mainly focuses on disinfection and sanitation of baby feeding utensils (nipples and bottles). The usual method of disinfection of these products is characterized using heat. This represents an additional risk since the use of heat as a disinfectant, in general, alters the organoleptic characteristics of the water (alteration of taste). The method of disinfection in their product is ozone oxidation (O3). The redox potential of ozone is the best of all possible disinfectants to use for drinking water disinfection. Therefore, as far as its germicidal activity is concerned, ozone is active against all kinds of organisms, such as fungi, bacteria, viruses, algae, protozoa, etc. It is therefore a unique product for household disinfection in all its aspects, a solution to health problems related to waterborne diseases, both for infants and for the general population. The product, based on the ozonization technique, widely fulfills the objective of disinfection, almost, up to sterilization. The company is looking for a partner in charge of the industrialization and commercialization of the product, for its manufacture and launch to the market. Participation in the project will be negotiated according to the capabilities of the interested partner. The company is open to discuss manufacturing agreements if the potential partner cannot get involved in the commercialization phase, and commercial agreements with technical assistance for the launch and commercialization of this product.

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