



# LANTITAPS

New automatic ear wax plugs removal system



---

[www.venturamedicaltechnologies.com](http://www.venturamedicaltechnologies.com)

## BIRTH OF THE IDEA

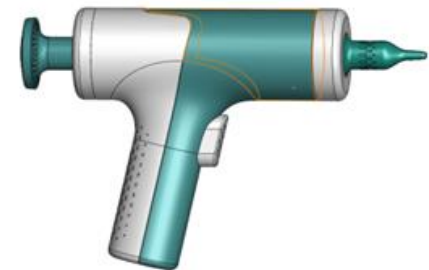
The discomfort of emptying the large syringes for auditory irrigation, and the high cost, limited portability and low autonomy or need for electrical connection of other devices, led to the development of a new automatic ear wax plugs removal system.



+



=



# Characteristics

## TARGET AUDIENCE

The LANTITAPS aims to facilitate the extraction of earwax plugs in a simple and safe way **for healthcare professionals** both in practices (primary health care centers, otolaryngology consultations, long-stay healthcare centers, and social residences), and outside them (home care, nursing homes ...) and it could even be **used by patients** themselves (patient expert).

## PATENTS

SPANISH UTILITY MODEL: U200800895

EUROPEAN PATENT: 10380098.3

PCT: PCT/IB2011/001673



**Earwax plugs** are a usual health issue, giving rise to many medical and nursing consultations.

In Primary Health Care practices they are one of the main problems of ear consultation with a prevalence of 2-6% according to the literature, which can reach up to 10% in children, 36% in intellectually disabled and 57% in elderly people. Hence the special significance they gain in home care and nursing homes.

In Catalonia, according to data from the Information System for the Development of Primary Health Care Research (SIDIAP), in a sample of 1,708,904 patients, a prevalence of 2.3% was proven for the diagnosis of wax ear plugs. It should not be overlooked that these figures are based only in primary health care, so we should assume that the total number of diagnoses and removals was even larger.

In the UK, 2.3 million patients have had an episode at some time, and it is estimated that 4 million annual therapeutic irrigations procedures are made.

In the United States, 12 million patients go to the doctor yearly to eliminate symptoms by undergoing around 8 million removals per year.

Irrigation with a syringe remains most-used technique to treat wax plugs in Primary Health Care.

Survey conducted to 145 nurses and 66 team directors at the ICS Primary Health Care Centers on:

**A. Frequency of use of the device:**

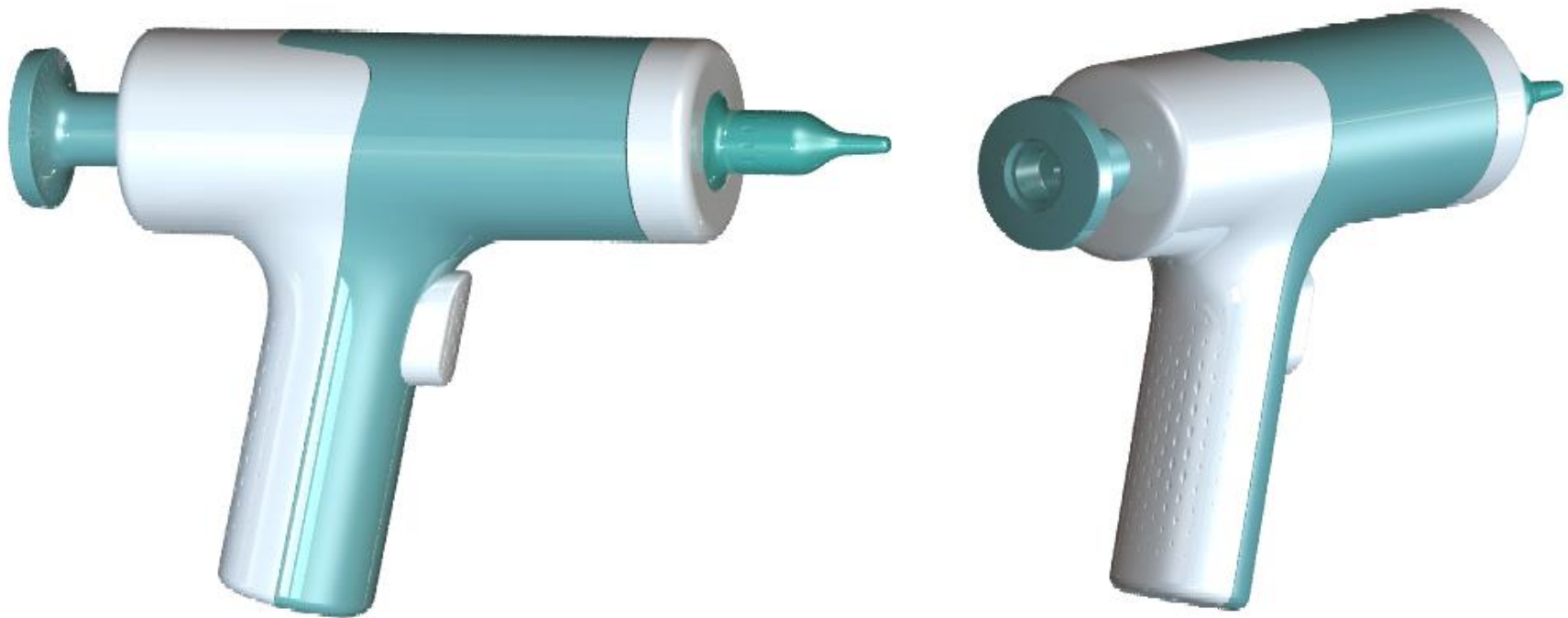
- |                        |              |
|------------------------|--------------|
| 1. Plastic syringe.    | <b>66,4%</b> |
| 2. Metal syringe.      | (13,6%)      |
| 3. Otoscillo/Propulse. | (2,7%)       |
| 4. Otoclear.           | (0,9%)       |
| 5. Ear Wash System.    | (16,4%)      |
| 6. Others.             |              |

**B. Disadvantages of product nº1, the most commonly used:**

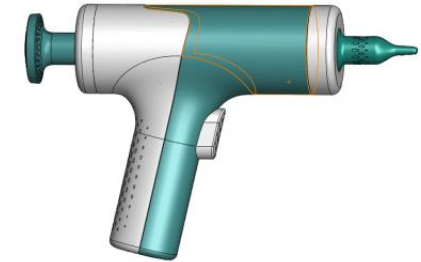
- |   |         |
|---|---------|
| 1. Ergonomics (awkward to use).               | (32,1%) |
| 2. Unsafe for the patient (risk of injury...) | (67,9%) |

**C. Main benefits of Lantitaps:**

- |                             |         |
|-----------------------------|---------|
| 1. Ergonomic improvement.   | (39,3%) |
| 2. Enhances patient safety. | (60,7%) |

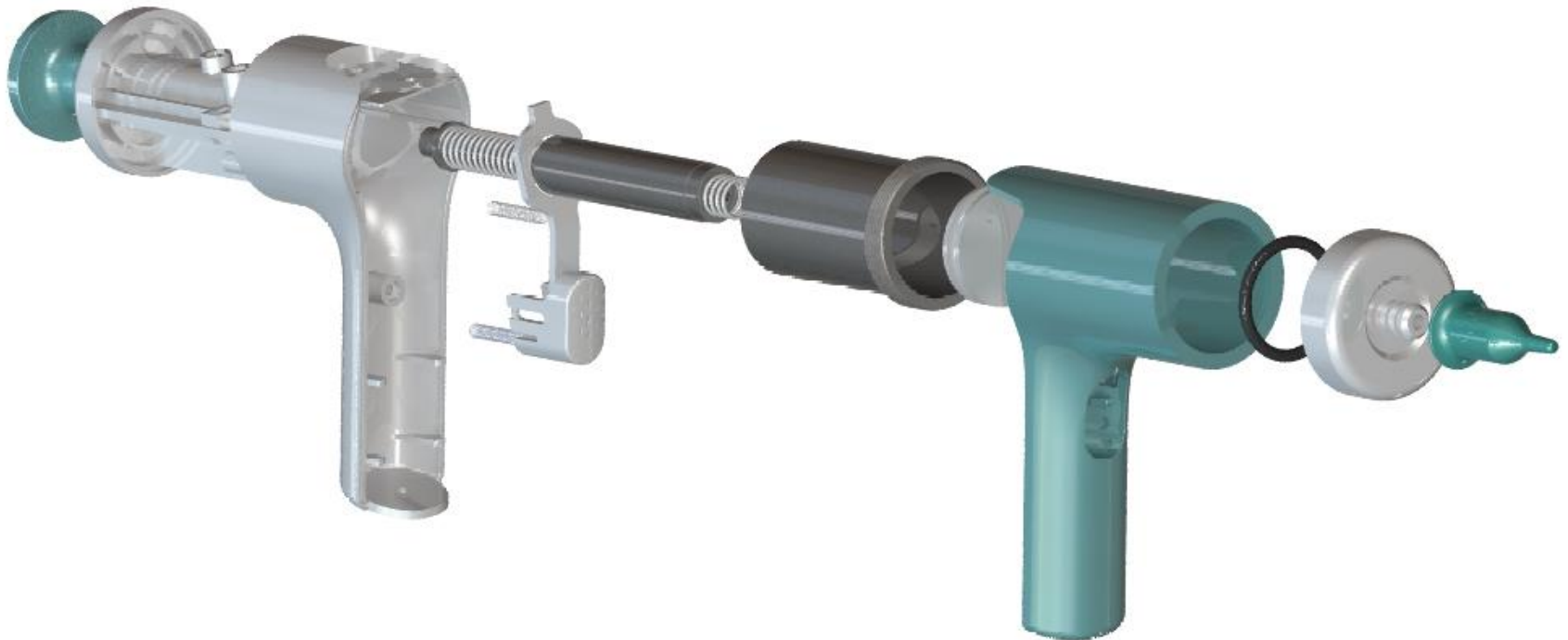


# Competitive profile



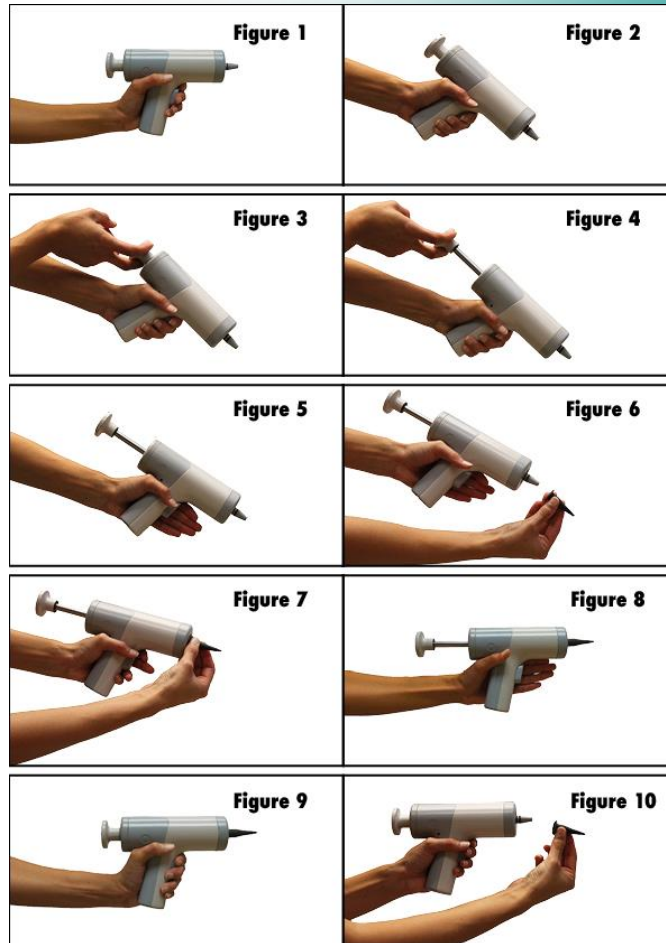
- High portability.
- Autonomy of use. No electrical connection required
- Optimum water outlet speed, calculated on the basis of the rupture pressure of the tympanic membrane and the result of tests carried out with syringes.
- Ergonomic improvement with respect to the syringe.
- Better grip, weight distribution and emptying of the irrigation device, it is enough to press the trigger.
- The portability and autonomy of LANTITAPS make it an ideal device for Home Care and allow its use in any ordinary practice.

# Components





# Instructions for use



*Prepare clean water and warm (37°C) in a container to load the Lantitaps and prevent the dizziness caused by the activation of the caloric reflex with the irrigation.*

*Remove the interchangeable speculum from the front part of the Lantitaps.*

*Submerge the front part of the Lantitaps in the water. To load the Lantitaps, press the trigger and pull the load handle, with the front part of the device still immersed.*

*When the load handle has reached its final position, stop pressing the trigger and take the front part of the device out of the water. The Lantitaps is loaded. Place the interchangeable speculum again.*

*The Lantitaps is ready for use and will irrigate when the trigger is pulled.*

The background of the slide features a detailed technical drawing of the LANTITAPS ear wax removal system. The drawing shows a complex mechanical assembly with various gears, levers, and components, all rendered in a light gray color. The drawing is overlaid on a white background with a teal border. The text 'LANTITAPS' is prominently displayed in the center of the drawing.

# LANTITAPS

New automatic ear wax plugs removal system



---

[www.venturamedicaltechnologies.com](http://www.venturamedicaltechnologies.com)