

New device allowing autonomous phonation for tracheotomized patient

Domaines d'application

Medical Device – Phonation - Tracheotomy

Contexte

After a tracheotomy, the cannula implanted in the trachea does not usually allow the transition of expired air through the superior respiratory tract, which is necessary for phonation. Check valves permit mechanical ventilation while preserving phonation. However these devices generally cause mouth dryness and most of them require the intervention of a nurse to remove the valve, which can be very dangerous if the patient is in a non-medical environment. In addition they induce a risk of pulmonary hyperinflation if the expiration is not complete.

Description de la Technologie

We propose a new phonation device that is more efficient and less dangerous. This invention allows the patient to easily change the air circuit when he/she wants to speak, by using a manual command and an original air pressure system.

Stade de Développement

Validated prototype - We are looking for an industrial partner who is specialized in ventilation to market this device integrated in a ventilator.

Propriété Intellectuelle

FR, US, EP patents