

(GTRC Lead) System and Method for Intracochlear and Vestibular Magnetic Stimulation

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Technology description

System and Method for Intracochlear and Vestibular Magnetic Stimulation

Abstract

The United States medical device market approached \$75 million USD last year. Cochlear Implants (CI) are devices that provide hearing aid to patients suffering from profound deafness or sensorineural hearing loss. CI's have replaced the old hearing aid devices; and manufacturers are continually improving the quality and design of cochlear implants. During the last few years, there has been a significant increase in the demand for cochlear implants, and this has enhanced CI market growth. The global CI market is predicted to grow at a CAGR of 9.86% for five years, and is estimated to reach \$3.2 billion USD by 2023.

Technology Summary

This technology entitled, "System and Method for Intracochlear and Vestibular Magnetic Stimulation" improves a device's sound fidelity and frequency sampling. It also circumvents inflammation-mediated sound quality reduction over time. As U.S. healthcare costs continue to rise, AU #2018-004's quality improvements and lower production costs will make it very attractive to the major companies that operate in this space.

Application area

Auditory augmentation

Advantages

- Localized cochlear stimulation
- No direct contact significantly reduces foreign body reactions (inflammation, scarring, reduced function over time)
- This CI model eliminates "cross talk"
- Lower production costs due to less expensive raw materials

Institution

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