

The proposed prosthesis, which may be used in surgical treatment of middle ear pathology, has the possibility of individual adjustment, allowing for effective hearing improvement in various types of damage. The new system is characterized by a simple construction based on a single element and allows for the partial or complete replacement of the damaged ossicular chain.

Advantages of the new prosthesis:

- ✓ high sound wave transmission efficiency;
- ✓ safety of use;
- ✓ functionality and intraoperative ease of modelling;
- ✓ universality of use in various clinical conditions;
- ✓ low production cost;

The invention has successfully passed preclinical tests and is currently in clinical development. The prosthesis was implanted in a group of patients in whom its effectiveness and safety were demonstrated. The offered solution is the subject of a patent application. Further works aimed at implementing the invention is carried out by scientists from the Collegium Medicum of the Jagiellonian University and the AGH University of Science and Technology in Kraków. Currently, the Centre for Technology Transfer CITTRU is looking for entities interested in commercial use of described solution.



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