

ANCHORED ELECTRODE SYSTEMS FOR LONG-TERM NEUROSTIMULATION

The Need

To increase the mechanical stability and the safety of electrodes for neurostimulation, thereby increasing the acceptance of neurostimulation technology even for long term applications in humans.

The Solution

An electrode for neurostimulation comprising an electrode base material, a coating material, and an anchoring layer, wherein the anchoring layer is located between the electrode base material and the coating material and comprises an anchoring structure.

Innovative Aspects

The present invention provides an electrode that can be produced at low effort within tight manufacturing tolerances, which enables a reliable neurostimulation and which possesses stability even when exposed to surrounding tissue for a long time.

The invention avoids delamination of coatings from electrode base material as the coating material is anchored by the anchoring structure in the anchoring layer.

Stage of Development: Electrode developed.

Intellectual Property

National Phase applications: USA and Europe

Priority date: June 11, 2021

Available for:

- Licensing
- Further development

Contact details