CLAIMS

1. A tissue electrical stimulation electrode, comprising:

- a first conductive plate configured to have an electric charge sign; and
- a second conductive plate surrounding the first conductive plate, wherein the first conductive plate and the second conductive plate are separated from each other;
- an electric potential barrier generated by the second conductive plate;

wherein the second conductive plate is configured to:

- generate an electric potential that has a sign opposite to the electric charge sign of the first conductive plate;
- generate an electric potential that has the same sign as the electric charge sign of the first conductive plate, generating the electric potential barrier that induces electrically charged particles to penetrate the tissue;

wherein the electric potential barrier corresponds to a region of the tissue with an electric field intensity formed by the electric potential applied by the second conductive plate.

2. The electrode of Claim 1, wherein at least one of the conductive plates is made of sponge.

3. The electrode of Claim 1, wherein there is at least one additional conductive plate to the second conductive plate.

4. The electrode of Claim 1, wherein between the first conductive plate and the second conductive plate there is a sponge.

5. The electrode of Claim 4, wherein the sponge contains an ionically charged substance.

6. The electrode of Claim 1, wherein the first conductive plate and second conductive plate consist of a conductive layer with a sponge layer.

7. The electrode of Claim 1, wherein the electrode body consists of a layer of insulating material supporting the first conductive plate and the second conductive plate.

8. The electrode of Claim 1, wherein the first conductive plate and the second conductive plate are coated with an insulating material.

9. The electrode of Claim 1, wherein around the second conductive plate there is at least one additional conductive plate, which surrounds the second conductive plate, in a concentric manner.

10. The electrode of Claim 1, which is connected to a tissue electrical stimulation machine.

11. The electrode of Claim 1, where at least one of the conductive plates is made of a sponge containing an ionically charged substance.

12. The electrode of Claim 11, where the ionically charged substance is a medicine.