Claims

1. An insert for a device for treating cells, wherein said insert comprises electrodes for emitting electric pulses and has an electrical connection, **characterized in that** a treatment space is provided in said insert, wherein said treatment space can be penetrated by the electric pulses emitted by said electrodes and an electric field resulting therefrom.

2. The insert according to claim 1, **characterized in that** the insert is a static insert.

3. The insert according to claim 1 or 2, **characterized in that** the treatment space is a chamber at one end of the insert and has an opening.

4. The insert according to claim 1 or 2, **characterized in that** said treatment space is an open area between the electrodes that are provided at one end of the insert.

5. The insert according to claim 3, **characterized in that** the electrodes are provided in said chamber.

6. A device, comprising an inlet and an inner space, and further comprising an opening and a unit for generating electric pulses, **characterized in that** the device further comprises the insert according to any of claims 1 to 5, that can be inserted in said opening.

7. The device according to claim 6, **characterized in that** the insert is electrically connected to the unit for generating electric pulses via the electrical connection of said insert.

8. The device according to claim 6 or 7, **characterized in that** the device further comprises a mixing unit.

9. The device according to claim 8, **characterized in that** the mixing unit is connected to a motor.

10. The device according to any of claims 6 to 9, **characterized in that** the device further comprises at least one additional sensor.

11. The device according to any of claims 6 to 10, **characterized in that** the treatment space provided in said insert has a volume that is in the range of 0.1% to 10%, preferably 1% to 5%, of the volume of the inner space of said device.

12. The device according to any of claims 6 to 11, **characterized in that** the unit for generating and emitting electric pulses can generate electric pulses so that a voltage increase take place between the two electrodes of 10% to 90% of a target voltage of the electric pulses within a period of 0.1 ns to 1000 ns, the electric pulses have a pulse duration of 5 ns to 50000 ns, and the electric pulses, upon reaching the target voltage, have an electric field strength of 0.5 kV/cm to 100 kV/cm.

13. A method for treating cells for stimulating cell growth, performed in the device according to any one of claims 6 to 12, comprising the steps

a) introducing cell material through the inlet of the device into the inner space of the device,

b) passing of the cell material into the treatment space and subjecting it to the electric pulses penetrating the treatment space.

14. The method according to claim 13, **characterized in that** the cell material is provided in the inner space of said device as a suspension in an electrically conductive liquid.

15. The method according to any one of claims 13 to 14, **characterized in that** an electric field is applied by said unit for generating electric pulses with such electric pulses that a voltage increase takes place between the two electrodes of 10% to 90% of a target voltage of the electric pulses within a period of 0.1 ns to 1000 ns, the electric pulses have a pulse duration of 5 ns to 50000 ns, and the electric pulses, upon reaching the target voltage, have an electric field strength of 0.5 kV/cm to 100 kV/cm.