CLAIMS

1. Ozone generator with a high-voltage electrode and at least one counter electrode, which define an interstice, in which at least one dielectric is arranged and though which a gas flows in the flow direction, wherein the high-voltage electrode and the at least one counter electrode are provided with a connection for an electrical voltage supply to generate silent discharges, wherein a wire fabric is arranged in the gas flow, wherein the density of the fabric decreases in the flow direction.

2. Ozone generator according to claim 1, wherein a free cross-sectional area of the fabric increases in the flow direction.

3. Ozone generator according to claim 1 or 2, wherein the fabric is a mesh, the mesh size of which continuously increases in the flow direction.

4. Ozone generator according to any one of the preceding claims, wherein the high-voltage electrode is formed at least partially of the fabric.

5. Ozone generator according to any one of the preceding claims, wherein the at least one counter electrode and the high-voltage electrode are plates that form a plate ozone generator.

6. Ozone generator according to any one of the preceding claims, wherein the at least one counter electrode and the high-voltage electrode are tubular and aligned concentrically to one another, and in that the fabric is a round hollow line.

7. Ozone generator according to one of the preceding claims, wherein a single counter electrode is provided and the high-voltage electrode is formed of the fabric, wherein the dielectric is arranged in contact with the counter electrode.

8. Wire fabric for use in a gas flow of an ozone generator, wherein the density of the fabric decreases along a longitudinal axis of the fabric.

9. Fabric according to claim 8, wherein a free cross-sectional area of the fabric increases continuously or in sections along the longitudinal axis of

the fabric.

10. Fabric according to claim 8 or 9, wherein the fabric is a mesh, the mesh size of which increases along the longitudinal axis.

11. Fabric according to any one of claims 8 to 10, wherein the fabric is a wire mesh, with a multi-part design with individual sections, wherein the fabrics of the individual sections have different densities.

12. Fabric according to claim 11, wherein the individual sections each have a constant mesh width, wherein the mesh width increases along the longitudinal axis from one section to the next.

13. Electrode arrangement with a central electrically non-conducting rod, a fabric surrounding the rod and a dielectric tube surrounding the fabric, that can be impinged upon by a gas flow through the fabric, wherein the density of the fabric decreases along a longitudinal axis of the fabric.

14. Electrode arrangement according to claim 13, wherein a free cross-sectional area of the fabric increases continuously or in sections along the longitudinal axis.

15. Electrode arrangement according to claim 13 or 14, wherein the fabric is a mesh, the mesh size of which increases along the longitudinal axis.