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 in order to produce silent discharges which are discharged from surface locations, and wherein the mean spacing between the high-voltage electrode and the at least one counter-electrode and the mean sparking distance are constant, wherein the number of surface locations from which the silent discharges are discharged decreases in the flow direction.

2. Ozone generator according to claim 1, wherein the number of surface locations from which the silent discharges are discharged continuously decreases in the flow direction.

3. Ozone generator according to claim 1 or 2, wherein the surface locations are arranged on the high-voltage electrode.

4 Ozone generator according to any one of the preceding claims, wherein the surface locations are formed by a wire braiding.

5. Ozone generator according to any one of the preceding claims, wherein the ozone generator has a single counter-electrode and the dielectric is arranged in abutment with the counter-electrode.

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

7. Generic ozonisers for disinfection of water having at least one ozone generator according to any one of the preceding claims.

8. Ozone producer for the bleach of wood pulp, chemical pulp or pulp having at least one ozone generator according to any one of the preceding Claims 1 to 6.