

PLASMA GENERATING METHOD AND DEVICE

Abstract

To provide a plasma generating method and a generating device that cause an electric discharge to occur between a fluid and a dielectric tube.

A method for generating plasma with an electric discharge within a dielectric tube by applying a voltage to a supplied gas, wherein: a water passage pipe is positioned within or above the dielectric tube; a high voltage electrode is arranged on the outer side of the dielectric tube; a grounding electrode is arranged in a fluid that is discharged through the water passage pipe and into the dielectric tube while remaining at a distance from the inner perimeter of the dielectric tube; and an electric discharge is caused to occur either between the inner wall of the dielectric tube and the fluid, or between the inner wall of the dielectric tube and the water passage pipe, by applying a voltage to the high voltage electrode and the grounding electrode connected to a power source device. Additionally, the connections of the dielectric tube, the water passage pipe, and an inlet which introduces the supplied gas are formed to have the structure of an aspirator.

【Selected Diagram】 Figure 1