

Title (en)

DEVICE AND METHOD FOR GENERATING A BARRIER DISCHARGE IN A GAS FLOW

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG EINER BARRIEREENTLADUNG IN EINEM GASSTROM

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR GÉNÉRER UNE DÉCHARGE À BARRIÈRE DANS UN FLUX DE GAZ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2012028408A1] The invention relates to a device and method for generating a barrier discharge in a gas flow, comprising a reactor chamber permeable by the gas from an inflow side to an outflow side, a first electrode, a dielectric that shields the reactor chamber against the first electrode, and a second electrode, wherein the second and the first electrode can be switched to connect to a voltage source. In order to briefly expose a greater portion of the gas flow led through the reactor chamber, preferably the entire gas flow, to a plasma, according to the invention at least two discharge elements associated with the first electrode and made of electrically conductive material protrude at least partially into the reactor chamber, the discharge elements are electrically insulated from each other and from the first and second electrodes, and the second electrode is disposed relative to the discharge elements such that discharges occur between the discharge elements and the second electrode in the reactor chamber.

IPC 8 full level

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