

Title (en)

DEVICE FOR GENERATING IONIZED GASES USING CORONA DISCHARGES

Title (de)

VORRICHTUNG ZUR ERZEUGUNG IONISierter GASE MITTELS KORONA-ENTLADUNGEN

Title (fr)

DISPOSITIF POUR PRODUIRE DES GAZ IONISES PAR DECHARGES PAR EFFET DE COURONNE

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Application

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Abstract (en)

[origin: WO0003466A1] The invention relates to a device for generating ionized gases using corona discharges in the respective gas. The device comprises at least one electrode (3 or 4) having a structure with a rough surface for building up high electric field strength resonances. The electrode (3 or 4) is assigned to an isolator (5 or 6). Another electric device which is subjected to the action of an alternating voltage potential is provided on the side of the isolator (5 or 6) which faces away from the electrode (3 or 4). The electrode (3 or 4) is connected to the isolator (5 or 6), lies thereupon, or is assigned thereto in the area of the sharp edges which are formed by the structure comprising a rough surface. A flow-through body (14) is assigned to the at least one electrode (5 or 6) and/or to the other electric device.

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