

Title (en)

LAMP FOR GENERATING HIGH POWER ULTRAVIOLET RADIATION

Title (de)

LAMPE ZUR EMISSION VON ULTRAVIOLETTSTRAHLUNG MIT HOHER LEISTUNG

Title (fr)

LAMPE EMETTANT UN RAYONNEMENT ULTRAVIOLET DE GRANDE PUISSANCE

Publication

EP 1082753 B1 20050209 (EN)

Application

EP 98924877 A 19980526

Priority

US 9810611 W 19980526

Abstract (en)

[origin: WO9962104A1] The apparatus is a gas filled ultraviolet generating lamp (10) for use as a liquid purifier. The lamp (10) is powered by high voltage AC, but has no metallic electrode within or in contact with the gas enclosure which is constructed as two concentric quartz cylinders (16, 20) sealed together at their ends, with the gas fill between the cylinders. Cooling liquid is pumped through the volume (14) inside the inner quartz cylinder (16), where an electrically conductive pipe (12) spaced from the inner cylinder (16) is used to supply the cooling liquid and act as the high voltage electrode. The gas enclosure (18) is enclosed within but spaced from a metal housing (28) which is connected to operate as the ground electrode of the circuit and through which the treated fluid flows. Thus, the electrical circuit is from the central pipe (12), and through the cooling liquid, the gas enclosure (18), the treated liquid on the outside of the outer quartz cylinder (20), and to the housing (28). The high voltage electrode (12) is electrically isolated from the source of cooling liquid by a length of insulated hose which also supplies the cooling liquid.

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