

Title (en)

APPARATUS FOR COUPLING POWER INTO A BODY OF GAS

Title (de)

VORRICHTUNG ZUM KOPPELN VON LEISTUNG IN EINEN GASKÖRPER

Title (fr)

DISPOSITIF PERMETTANT DE COUPLER DE L'ENERGIE A L'INTERIEUR D'UN CORPS GAZEUX

Publication

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Application

EP 99922363 A 19990519

Priority

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- GB 9811081 A 19980522

Abstract (en)

[origin: WO9962308A1] Apparatus for coupling power into a body of gas by induction to provide a gas discharge, comprises a source of a/c power (3) coupled to a circuit arrangement having an inductor comprising two coils (1, 2), each constituted by a respective elongate conductor, the conductors each having one end coupled to the circuit arrangement at opposite respective sides of the inductor, and having the other end at a floating potential. The mutual capacitance between the coils, together with the inductance of the inductor as a whole, constitute a balanced self-resonant circuit having a resonant frequency which is greater than 1 MHz and less than 100 MHz. This arrangement can reduce temperature variations in the resonant frequency and can reduce unwanted r.f. emissions.

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H05H 1/46

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