

Title (en)

PROBE FOR MEASURING CHARACTERISTICS OF AN EXCITATION CURRENT OF A PLASMA, AND ASSOCIATED PLASMA REACTOR

Title (de)

SONDE ZUR MESSUNG VON EIGENSCHAFTEN EINES ERREGUNGSSTROMS EINES PLASMAS UND ASSOZIIERTER PLASMAREAKTOR

Title (fr)

SONDE DE MESURE DE CARACTERISTIQUES D'UN COURANT D'EXCITATION D'UN PLASMA, ET REACTEUR A PLASMA ASSOCIE.

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Application

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Abstract (en)

[origin: WO2006030024A1] The invention relates to a probe for measuring electrical characteristics of an excitation current of a plasma, said probe being mounted on a conductive line (20) that comprises an inner conductor (21) and an outer conductor (22), comprising a current sensor (41) and a voltage sensor (42), characterized in that: the current sensor comprises: a groove (410) formed in the ground of one of the conductors (22) in order to form a detour for the current flowing through said conductor, and a point for measuring electric voltage between a ground connected to said conductor and a point of the groove, said current sensor thereby being able to measure a voltage (V1) proportional to the first time derivative of intensity ( $I_{\text{sub}}$ )

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