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(54) Title: A METHOD FOR STABILIZING A PLASMA AND AN IMPROVED IONIZATION CHAMBER

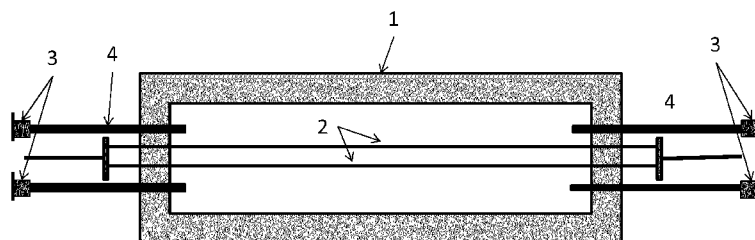


FIG 1

(57) Abstract: The present invention is directed to a method for stabilizing a plasma comprising: a. providing in an ionization chamber a number of high voltage wires and a gas suitable for forming a plasma b. exposing the gas to a high voltage thereby igniting the gas to form the plasma, characterized in that upon ignition the plasma is subjected to an amount of light. In addition, the present invention is directed to the use of such method in generating X-rays. Further, the present invention is directed to an ionization chamber comprising: a. a gas suitable for forming a plasma, and b. a number of high voltage wires for exposing the gas to a high voltage thereby igniting the gas to form the plasma, characterized in that the ionization chamber comprises means for subjecting the plasma upon ignition to an amount of light. Additionally, the present invention relates to an X-ray generator comprising such ionization chamber, and to a laser apparatus comprising such X-ray generator.

