

Title (en)

DEVICE FOR GENERATING AN ATMOSPHERIC PLASMA BEAM, AND METHOD FOR TREATING THE SURFACE OF A WORKPIECE

Title (de)

VORRICHTUNG ZUM ERZEUGEN EINES ATMOSPHERISCHEN PLASMASTRAHLS UND VERFAHREN ZUR BEHANDLUNG DER OBERFLÄCHE EINES WERKSTÜCKS

Title (fr)

DISPOSITIF DE GÉNÉRATION D'UN JET DE PLASMA ATMOSPHERIQUE ET PROCÉDÉ DE TRAITEMENT DE LA SURFACE D'UNE PIÈCE

Publication

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Application

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Abstract (en)

[origin: CA3007719A1] The invention relates to a device for generating an atmospheric plasma beam for treating the surface of a workpiece, comprising a tubular housing (10) which has an axis (A), an inner electrode (24) arranged within the housing (10), and a nozzle assembly (30) which has a nozzle opening (18) for discharging a plasma beam to be generated in the housing (10). The direction of the nozzle opening (18) runs at an angle relative to the axis (A), and the nozzle assembly (30) can be rotated about the axis (A). The aim of the invention is to develop the aforementioned device, system, and method for treating the surface of a workpiece such that the aforementioned disadvantages are at least partly eliminated and a uniform treatment of the surface is achieved. This is achieved in that a shield (40) surrounds the nozzle assembly (30), and the shield (40) is designed to change the intensity of the interaction of the plasma beam to be generated with the surface of the workpiece depending on the rotational angle of the nozzle assembly (30) relative to the axis (A). The invention also relates to a method for treating the surface of a workpiece.

IPC 8 full level

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