

Title (en)  
METHOD FOR GENERATING A PLASMA FLOW

Title (de)  
VERFAHREN ZUM ERZEUGEN EINES PLASMAFLUSSES

Title (fr)  
PROCÉDÉ DE GÉNÉRATION D'UN FLUX DE PLASMA

Publication  
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Application  
**EP 09775312 A 20091208**

Priority  
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• CH 19322008 A 20081209

Abstract (en)  
[origin: WO2010067306A2] The invention relates to a device (10) generating a plasma flow (F) including a tubular electrically conductive housing (1) forming a central channel (2) crossed by a vortex gas (3), a central electrode (5) coaxially arranged in said channel (2) and an electric power source (7) intended for applying an electric voltage V between the electrode (5) and the housing (1), characterised in that the mean diameter of the channel (2) formed by the housing (1) gradually decreases from an area (9) located substantially level with the free end of the electrode (5) to an end area (13) of said housing (1), said end area (13) being configured such that the minimum electric voltage  $V_{\min(O)}$  to be applied in order to generate an electric arc (12) between said electrode (5) and said end area (13) is strictly greater than said voltage V.

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