Title (en)

PLASMA TORCH FOR MELTING MATERIAL TO BE PROCESSED IN A CONTAINER AND FOR MAINTAINING THE MATERIAL AT THE REQUIRED TEMPERATURE

Title (de)

PLASMABRENNER ZUM SCHMELZEN UND WARMHALTEN VON IN GEFÄSSEN ZU BEHANDELNDEN MATERIALIEN

Title (fr)

CHALUMEAU A PLASMA POUR LA FUSION ET LE MAINTIEN A LA TEMPERATURE REQUISE DE MATERIAUX A TRAITER DANS DES RECIPIENTS

Publication

EP 0555305 B1 19960424 (DE)

Application

EP 91918979 A 19911029

Priority

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Abstract (en)

[origin: WO9208335A1] The invention concerns a plasma torch which is mounted on a support structure so that it extends into a container. The burner has a lance fitted with a jet nozzle and an electrode tube, fitted with a main electrode, located inside the lance. Gaseous and liquid media, as well as the electric current, are fed to the electrode through coaxially pipes. The bottom of the main electrode (10) is surrounded by an annular insulating element (21) which forms a ring round the electrode (10). The outer wall (33) of the double-walled lance (30) carried by the support structure being fixed to this insulation.

IPC 1-7

H05H 1/34; H05H 1/38

IPC 8 full level

H05H 1/34 (2006.01); **H05H 1/38** (2006.01); **H05H 1/44** (2006.01)

CPC (source: EP US)

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DE 9100848 W 19911029; AU 8768691 A 19911029; DE 4034731 A 19901030; DE 59107742 T 19911029; EP 91918979 A 19911029; JP 51721091 A 19911029; US 5022193 A 19931213; ZA 918609 A 19911029