

Title (en)
Plasma gun

Title (de)
Plasmabrenner

Title (fr)
Torche plasma

Publication
EP 1166942 A3 20040102 (DE)

Application
EP 01890189 A 20010619

Priority
AT 4532000 U 20000621

Abstract (en)
[origin: US2002033386A1] A device with a plasma torch with a rod-shaped non-consumable electrode (3, 4) which is held in a receiver (1), is connected with an electric connection and penetrates a nozzle (9) which is in connection with a gas connection. In order to also enable the rapid and secure welding of difficult alloys it is provided that a further rod-shaped non-consumable electrode (3, 4) is disposed in the receiver (1) which is made from an electrically non-conducting material, which further electrode also penetrates a nozzle (9') which is in connection with a gas connection, with the two electrodes (3, 4) enclosing an acute angle and each being in connection with a separate voltage source (31, 32) supplying direct voltage pulses, the level of which exceeds at least the arc voltage of an arc between one of the electrodes (3, 4) and a counterelectrode which is associated with the same and connected with the same voltage source (31, 32).

IPC 1-7
B23K 10/00; **B23K 10/02**; **H05H 1/44**

IPC 8 full level
H05H 1/44 (2006.01)

CPC (source: EP US)
H05H 1/44 (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
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US 2002033386 A1 20020321; **US 6410879 B1 20020625**; AT 4667 U1 20011025; CA 2350977 A1 20011221; CA 2350977 C 20090512; EP 1166942 A2 20020102; EP 1166942 A3 20040102; EP 1166942 B1 20060809

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