

Title (en)
Plasma gun

Title (de)
Plasmabrenner

Title (fr)
Torche plasma

Publication
EP 1166942 B1 20060809 (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 8 full level
B23K 10/00 (2006.01); **B23K 10/02** (2006.01); **H05H 1/44** (2006.01)

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

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
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

DOCDB simple family (application)
US 88341201 A 20010618; AT 4532000 U 20000621; CA 2350977 A 20010620; EP 01890189 A 20010619