

Title (en)
Device for plasma cutting

Title (de)
Plasmaschneidgerät

Title (fr)
Dispositif de coupage par plasma

Publication
EP 1395097 A3 20061025 (EN)

Application
EP 03018298 A 20030812

Priority
IT BO20020553 A 20020830

Abstract (en)
[origin: EP1395097A2] A device for plasma cutting is provided with an external sleeve (2) for a nozzle (3) equipped with an exit (4) of the plasma jet (30) and separated by the external sleeve (2) by means of a cavity (5) outside flowing at least through an opening (6) of such sleeve (2). The device (1) includes a protrusion (7) of the nozzle (3) carrying the exit (4) and being approximately truncated cone shaped with side wall (8) that diverges in the direction of the external outlet (9) of the exit (4) to deflect, in direction away from the jet (30), a cooling fluid (F) flowing through the cavity (5).

IPC 8 full level
H05H 1/34 (2006.01)

CPC (source: EP US)
H05H 1/34 (2013.01 - EP US); **H05H 1/3484** (2021.05 - EP)

Citation (search report)

- [XY] US 4029930 A 19770614 - SAGARA HIDEO, et al
- [XY] EP 0444346 A2 19910904 - ESAB WELDING PRODUCTS INC [US]
- [Y] WO 9102619 A1 19910307 - HYPERTHERM INC [US]
- [Y] EP 0735805 A1 19961002 - ADAMAS AT AG [DE]
- [A] US 4816637 A 19890328 - SANDERS NICHOLAS A [US], et al

Cited by
US7598473B2; US8097828B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
EP 1395097 A2 20040303; EP 1395097 A3 20061025; EP 1395097 B1 20090114; DE 60325813 D1 20090305; IT BO20020553 A1 20040229

DOCDB simple family (application)
EP 03018298 A 20030812; DE 60325813 T 20030812; IT BO20020553 A 20020830