

Title (en)
Plasma torch

Title (de)
Plasmabrenner

Title (fr)
Torche à plasma

Publication
EP 1686842 A1 20060802 (FR)

Application
EP 05100579 A 20050128

Priority
EP 05100579 A 20050128

Abstract (en)
The torch has a conical cathode (120) with a point (20) and a half-coupling (200). A cathode screw (300) with a half-coupling (400) fixes the cathode, in operational position, in a cathode-gate (22) by the application of pressure on the cathode. The half-couplings (200, 400) cooperate to form a coupling, between the cathode and the screw, allowing the transmission of a traction force from the screw to the cathode. The point is present on a conical part of the cathode, and penetrates partially a central cavity of an anode to form a space between them to produce an electric arc plasma generator and a passage for a plasmagene gas towards a plasma output opening.

IPC 8 full level
H05H 1/34 (2006.01)

CPC (source: EP US)
H05H 1/3423 (2021.05 - EP US); **H05H 1/3478** (2021.05 - EP)

Citation (search report)

- [XA] EP 0639041 A1 19950215 - MILLER THERMAL INC [US]
- [DA] WO 9720453 A1 19970605 - MOUCHET CLAUDE [FR]
- [A] US 2004232118 A1 20041125 - HORNER-RICHARDSON KEVIN D [US], et al

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

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