

Title (en)  
PLASMA TORCH

Publication  
**EP 0176004 A3 19880525 (DE)**

Application  
**EP 85111482 A 19850911**

Priority  
DE 3435680 A 19840928

Abstract (en)  
[origin: US4645899A] In a plasma torch having an output end, the torch including an electrode having a longitudinal axis, and a generally cylindrical nozzle body surrounding, and positioned concentrically with, the electrode and the nozzle body, the nozzle body includes: a radially symmetrical, generally cylindrical inner wall spaced radially from the electrode; a radially symmetrical, generally cylindrical outer wall surrounding, and arranged concentrically with respect to, the inner wall; a front end wall located in the vicinity of the torch output end and joining together the inner and outer walls; and an electrical insulating component forming part of at least one of the inner and front end walls and extending entirely across its associated wall for electrically insulating the inner and outer walls from one another at at least one location in the vicinity of the front end wall.

IPC 1-7  
**H05H 1/34**

IPC 8 full level  
**H05H 1/34** (2006.01)

CPC (source: EP US)  
**H05H 1/34** (2013.01 - EP US); **H05H 1/3436** (2021.05 - EP); **H05H 1/3436** (2021.05 - US)

Citation (search report)  
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• [X] FR 1549642 A 19681213  
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• [AD] US 3147329 A 19640901 - GAGE ROBERT M  
• [A] EP 0111116 A2 19840620 - KRUPP GMBH [DE]

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US5406047A; EP0510816A3; WO9201360A1; WO9208335A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0176004 A2 19860402; EP 0176004 A3 19880525; EP 0176004 B1 19911030**; AT E69133 T1 19911115; CA 1241704 A 19880906; DD 238500 A5 19860820; DE 3435680 A1 19860403; DE 3435680 C2 19900201; ES 296059 U 19870716; ES 296059 Y 19880116; JP H0695478 B2 19941124; JP S6188500 A 19860506; NO 167444 B 19910729; NO 167444 C 19911106; NO 853683 L 19860401; US 4645899 A 19870224; ZA 857473 B 19860528

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