

Title (en)  
PLASMA BURNER

Publication  
**EP 0178288 A3 19880803 (DE)**

Application  
**EP 85890220 A 19850912**

Priority  
AT 323284 A 19841011

Abstract (en)  
[origin: US4650953A] A plasma torch comprises an electrode secured to a liquid-cooled electrode holder and formed with a flow passage communicating with a central outlet for delivering an ionizable gas and a nozzle body which surrounds the electrode and serves to conduct gas along the outside surface of the electrode. To permit an increase of the torch power, the central outlet communicating with the flow passage constitutes a diffuser. The outlet opening of the diffuser is axially spaced from the nozzle body.

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 1/3478** (2021.05 - EP); **H05H 1/3484** (2021.05 - EP);  
**H05H 1/3436** (2021.05 - US); **H05H 1/3478** (2021.05 - US); **H05H 1/3484** (2021.05 - US)

Citation (search report)  
• [A] FR 2414279 A1 19790803 - INST ELEKTROSWARKI PATONA [SU]  
• [A] US 3304719 A 19670221 - DUCATI ADRIANO C  
• [A] US 3130292 A 19640421 - GAGE ROBERT M, et al  
• [A] EP 0111116 A2 19840620 - KRUPP GMBH [DE]  
• [A] US 3692431 A 19720919 - GEBEL RUDOLF

Cited by  
US4958057A; AU644132B2; US6207923B1; WO9111089A1

Designated contracting state (EPC)  
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0178288 A2 19860416; EP 0178288 A3 19880803; EP 0178288 B1 19901024**; AT 381826 B 19861210; AT A323284 A 19860415;  
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US 4650953 A 19870317; ZA 857486 B 19860625

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