

Title (en)
High enthalpy plasma torch.

Title (de)
Hochenthalpie-Plasmabrenner.

Title (fr)
Tuyère à plasma à enthalpie élevée.

Publication
EP 0515975 A2 19921202 (EN)

Application
EP 92108547 A 19920520

Priority
CA 2043504 A 19910529

Abstract (en)
A plasma torch comprises a torch housing, rear and front tubular electrodes coaxially mounted within such housing with a gap therebetween, both electrodes being fabricated from copper having tubular inserts of refractory material, a vortex generator for introducing a tangential flow of gas in opposite direction into the tubular electrodes through the gap between the two electrodes, and a cooling system for cooling the tubular electrodes.
<IMAGE>

IPC 1-7
H05H 1/28; **H05H 1/34**

IPC 8 full level
B23K 10/00 (2006.01); **H05B 7/18** (2006.01); **H05H 1/28** (2006.01); **H05H 1/34** (2006.01)

CPC (source: EP US)
H05H 1/28 (2013.01 - EP); **H05H 1/34** (2013.01 - EP US); **H05H 1/3431** (2021.05 - EP); **H05H 1/3442** (2021.05 - EP); **H05H 1/3468** (2021.05 - EP)

Cited by
CN116582993A; US5611896A; FR2703557A1; FR2798247A1; EP2827685A3; CN109014456A; WO2012140425A1; US9277636B2; US11247282B2; US7250540B2; US6919015B2; TWI606861B

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0515975 A2 19921202; **EP 0515975 A3 19930512**; **EP 0515975 B1 19961030**; CA 2043504 C 19950117; DE 69214878 D1 19961205; DE 69214878 T2 19970403; JP 3042919 B2 20000522; JP H04355100 A 19921209

DOCDB simple family (application)
EP 92108547 A 19920520; CA 2043504 A 19910529; DE 69214878 T 19920520; JP 31075091 A 19911126