

Title (en)

APPARATUS FOR CUTTING METALLIC WORK PIECES BY PLASMA

Publication

EP 0208134 A3 19880107 (DE)

Application

EP 86107550 A 19860603

Priority

DE 3524034 A 19850705

Abstract (en)

[origin: EP0208134A2] 1. Apparatus for the plasma cutting of metallic workpieces with an electrode which, accompanied by the formation of a central area (14), is surrounded by a nozzle body (24), which has the plasma bore (26), which is centrally surrounded by a plurality of fine bores (27) in the nozzle body, characterized by the construction as a single-gas apparatus, in which the plasma gas and the cooling gas are constituted by the same gas, which enters the central area (14), from which the plasma-forming gas fraction flows through the centrally arranged plasma bore (26) in the nozzle body (24), whilst the gas fraction used for cooling purposes flows through the fine bores (27) located around the plasma bore (26) in nozzle body (24).

IPC 1-7

H05H 1/34; **H05H 1/28**

IPC 8 full level

B23K 10/00 (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)

Citation (search report)

- [Y] US 3567898 A 19710302 - FEIN SAMUEL
- [Y] US 3794806 A 19740226 - KLASSON G

Cited by

EP1578177A1; FR2852541A1; EP0573330A1; FR2691920A1; US9662747B2; US10098217B2; US10194516B2; US7989727B2; US8153927B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 86107550 A 19860603; AT 86107550 T 19860603; DE 3524034 A 19850705; DE 3670555 T 19860603; JP 15426486 A 19860702