

Title (en)

PLASMA TORCH HAVING A CONICAL ELECTRODE AND A NOZZLE, THE INNER SURFACE OF WHICH IS AT LEAST IN PART CONICAL

Publication

EP 0111116 B1 19890913 (DE)

Application

EP 83110451 A 19831020

Priority

DE 3241476 A 19821110

Abstract (en)

[origin: US4594496A] A plasma burner for introducing an ionizable gas stream into an electric arc comprises a nozzle having an outlet opening for discharging the gas stream. The outlet opening is defined by an outlet part of the nozzle; the outlet part has an inner nozzle face conically tapering, at an acute first cone angle, in a direction of the outlet opening. The plasma burner further has an electrode surrounded by the outlet part and having an outer electrode face conically tapering, at an acute second cone angle, in the direction of the outlet opening. The inner nozzle face and the outer electrode face together define a conical annular channel.

IPC 1-7

H05H 1/34

IPC 8 full level

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CPC (source: EP US)

H05H 1/34 (2013.01 - EP US); **H05H 1/3436** (2021.05 - EP); **H05H 1/3478** (2021.05 - EP); **H05H 1/3436** (2021.05 - US); **H05H 1/3478** (2021.05 - US)

Cited by

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EP 0111116 A2 19840620; **EP 0111116 A3 19851009**; **EP 0111116 B1 19890913**; AT E46419 T1 19890915; DE 3241476 A1 19840510; DE 3241476 C2 19900222; FI 834038 A0 19831103; FI 84548 B 19910830; FI 84548 C 19911210; JP S5999700 A 19840608; US 4594496 A 19860610; ZA 838333 B 19840725

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