

Title (en)

Plasma torch having an essentially axisymmetrical general structure

Title (de)

Plasmabrenner mit einer wesentlich axisymmetrischen allgemeinen Struktur

Title (fr)

Torche à plasma à structure générale sensiblement axi-symétrique

Publication

EP 0750450 B1 20000927 (FR)

Application

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Priority

FR 9507790 A 19950623

Abstract (en)

[origin: EP0750450A1] A plasma torch with an essentially axisymmetrical general structure incorporates: (a) a naked torch part (1) in which are arranged one or two tubular electrodes cooled by an appropriate cooling circuit, a field coil (25) and some means (17) for injecting a plasma gas, together with some means (42) for assuring the starting of the torch; and (b) an external structure (2) in which are regrouped the fluid and electrical linkages external to the torch. The naked part (1) of the torch has a carrier structure formed from three coaxial envelopes: namely, an external metal envelope, an intermediate metal envelope defining with the external envelope the return circuit for the cooling fluid, and an internal envelope defining with the intermediate envelope the inlet circuit for the plasma gas to the injection system and channelling through its inner face the inlet flow of the cooling fluid to the electrodes and the field coil.

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