

Title (en)
PLASMA TORCH, ESPECIALLY A PLASMA POSITIVE POLE TORCH

Title (de)
PLASMABRENNER, INSBESONDERE PLASMAPLUSPOLBRENNER

Title (fr)
CHALUMEAU A PLASMA, NOTAMMENT CHALUMEAU A POLE POSITIF A PLASMA

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Application
EP 01974296 A 20010925

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Abstract (en)
[origin: WO0226005A1] The invention relates to a plasma torch, especially a plasma positive pole torch, comprising a preferably truncated electrode (1) which is cooled by a cooling agent, and a nozzle (2) which is concentric and electrically insulated in relation to the electrode (1), and likewise cooled by a cooling agent. A channel (3) for supplying the plasma gas is formed between the electrode (1) and the nozzle (2). The aim of the invention is to enable light metals to be joined even when the electrode has a permanently positive polarity in high power ranges. In order to achieve this, a cooling agent supply (4) is provided for the electrode (1), said supply being central in relation to the longitudinal axis of the electrode (1). The recirculation of the cooling agent is carried out by means of at least two recirculation channels (5) which are radially arranged towards the outside in relation to the longitudinal axis of the electrode.

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IPC 8 full level
H05H 1/28 (2006.01); **H05H 1/34** (2006.01)

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