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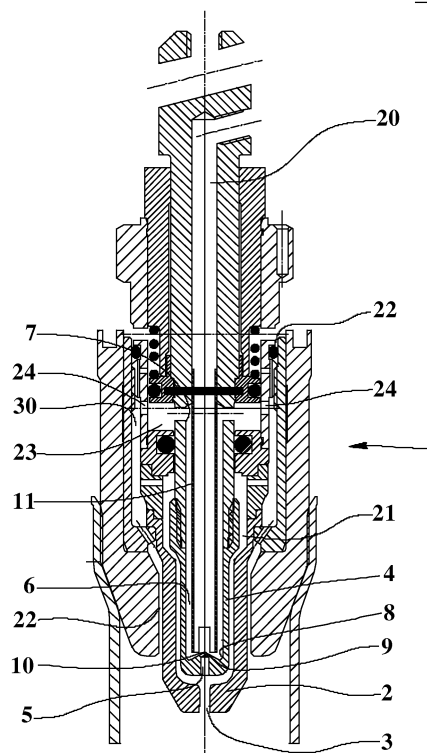
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(54) **Plasma torch device and method for carrying out an electrode thereof**

(57) Plasma torch device comprising at least a nozzle (2) provided with a plasma outlet (3) and containing an electrode (4) whose terminal portion turned towards the plasma outlet (3) has a housing in which an insert (5) is blocked. Said electrode is also provided with an inner longitudinal cavity (6) having an opened end (7) and a closed end (8) towards the end portion having the insert (5).

The closed end (8) of the electrode has a shaped portion (9) having shape almost conical protruding inside the longitudinal cavity (6) and with the vertex (10) turned towards the opened end (7) of said cavity (6).

**FIG.1**





## EUROPEAN SEARCH REPORT

Application Number  
EP 08 15 6329

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Place of search		Date of completion of the search	Examiner	
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CATEGORY OF CITED DOCUMENTS				
<p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>				

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