

Title (en)  
PLASMA CUTTING TORCH

Title (de)  
PLASMA-SCHNEIDBRENNER

Title (fr)  
TORCHE DE COUPAGE PAR PLASMA

Publication  
**EP 2127502 B1 20151028 (EN)**

Application  
**EP 08702238 A 20080115**

Priority  
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• IT BO20070019 A 20070115

Abstract (en)  
[origin: WO2008087522A2] A plasma cutting torch (1) consists of a torch body (2) comprising: an electrode (3) mounted in the torch body (2); a nozzle (4), mounted on the proximal end of the torch body (2) to form a chamber (5) into which a first fluid (F1) is fed in order to generate plasma, and having a first central through hole (6) for the passage of the plasma; a nozzle holder or support (7) whose inside wall faces the outside wall of the nozzle (4) in such a way as to form a cooling chamber (8) through which a second cooling fluid (F2) passes; a first nozzle (4) and nozzle holder (7) covering unit (10) joined to the torch body (2); the proximal end of the first unit (10) is provided with a second central hole (11) for the passage of the plasma; a first channel (12), formed by the first unit (10) and the nozzle holder (7), for the passage of a third fluid (F3); and a second unit (13) for partly covering the first unit (10), joined to the torch body (2) and designed to form, together with the outside surface of the first unit (10) facing the second unit (13), a second channel (14) for the passage of a fourth fluid (F4) leading in the direction of the second hole (11).

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

CPC (source: EP US)  
**H05H 1/34** (2013.01 - EP US); **H05H 1/3457** (2021.05 - EP)

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US 5194715 A 19930316 - SEVERANCE JR WAYNE S [US], et al

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