

Title (en)  
Welding torch

Title (de)  
Schweissbrenner

Title (fr)  
Torche de soudage

Publication  
**EP 1248500 A3 20040421 (DE)**

Application  
**EP 02014132 A 19980526**

Priority  
• EP 02014132 A 19980526  
• EP 98109489 A 19980526

Abstract (en)  
[origin: EP0961527A1] The torch (10) consists of main body (12) which accommodates a sleeve (20) for an electrode (48). The electrode is adjoined with a nozzle (34) which is covered by a shield cup (36). A cylinder (60) and a piston (82) are accommodated inside the main body. The gas inlet passage (94) is provided in the main body. An outlet orifice (104) for plasma gas (P) is provided in an edge wall (102) of the nozzle. While passing out the outlet orifice, an arc is provided between the electrode and the nozzle. A swirling rib (130) is provided inside edge wall of the nozzle for guiding flow of plasma gas from inlet to outlet orifice.

IPC 1-7  
**H05H 1/34**

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

CPC (source: EP US)  
**H05H 1/34** (2013.01 - EP US); **H05H 1/3442** (2021.05 - EP); **H05H 1/3468** (2021.05 - EP); **H05H 1/3478** (2021.05 - EP);  
**H05H 1/3489** (2021.05 - EP)

Citation (search report)  
• [A] US 5726415 A 19980310 - LUO LIFENG [US], et al  
• [A] US 5451739 A 19950919 - NEMCHINSKY VALERIAN [US], et al  
• [A] US 5208448 A 19930504 - EVERETT JEFFREY S [US]

Cited by  
DE102009015510B4; DE102009004968A1; DE102009004968B4

Designated contracting state (EPC)  
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