

Title (en)
PLASMA TORCH SHUTDOWN CIRCUIT

Publication
EP 0213689 A3 19880921 (EN)

Application
EP 86303754 A 19860516

Priority
US 77260685 A 19850904

Abstract (en)
[origin: EP0213689A2] A plasma torch (11) is supplied with its d.c. operating voltage by a drooping transformer (33) and a rectifier (31), for striking an arc between an electrode (19) and a workpiece (13). If the arc strikes between the electrode and the torch casing (17), the operating voltage drops. A control circuit (51) senses when the operating voltage is below a threshold value and turns off the power supply by opening a solenoid switch (39, 41, 43). This action is briefly disabled each time the power supply is turned on to allow the operating voltage to build up to its normal level, above the threshold.

IPC 1-7
H05H 1/36; B23K 9/10

IPC 8 full level
B23K 10/00 (2006.01); **H05H 1/36** (2006.01)

CPC (source: EP)
H05H 1/36 (2013.01)

Citation (search report)
• [X] FR 2151219 A5 19730413 - SHAPIRO ILYA, et al
• [X] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 90 (M-292)[1527], 25th April 1984; & JP-A-59 007 480 (MATSUSHITA DENKI SANGYO K.K.) 14-01-1984

Cited by
US5717187A; US5900169A; US5756960A; ES2115542A1; CN109709427A; US7807937B2; US2014254054A1; US9214801B2; US9997903B2; WO9856215A1

Designated contracting state (EPC)
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