

Title (en)

Plasma torch shutdown circuit.

Title (de)

Abschalterschaltung für Plasmabrenner.

Title (fr)

Circuit d'interruption d'une torche à plasma.

Publication

EP 0213689 A2 19870311 (EN)

Application

EP 86303754 A 19860516

Priority

US 77260685 A 19850904

Abstract (en)

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

IPC 8 full level

B23K 10/00 (2006.01); **H05H 1/36** (2006.01)

CPC (source: EP)

H05H 1/36 (2013.01)

Cited by

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

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EP 86303754 A 19860516; JP 11043386 A 19860514