

Title (en)
ELECTRIC ARC GENERATING DEVICE

Title (de)
VORRICHTUNG ZUM ERZEUGEN EINES ELEKTRISCHEN BOGENS

Title (fr)
DISPOSITIF GENERATEUR D'ARC ELECTRIQUE

Publication
EP 0436576 B1 19960703 (EN)

Application
EP 89910405 A 19890913

Priority
• AU PJ038888 A 19880913
• AU 8900396 W 19890913

Abstract (en)
[origin: WO9003095A1] An electric arc generating device including, a first electrode (1) and at least two further electrodes (2, 3, 4). A source of electrical power (11) is connectable to said electrodes so as to cause an arc to burn between the first electrode and one of the further electrodes. The distribution of power within the zone of the arc is controlled by repetitively changing the path of the arc. That is, one root of the arc may remain attached to the first electrode, whereas attachment of the other root is transferred between two or more of the further electrodes on a repetitive basis. The timing and extent of each change may vary according to circumstances of use. The changes in arc path are due at least in part to repetitive modification of the influence of the power source on one or more of the further electrodes, but variation of the flow rate of gas/material (7, 9, 10) through the arc zone (6) can be another controlling factor.

IPC 1-7
H05H 1/34; **H05B 7/18**

IPC 8 full level
H05H 1/34 (2006.01); **B05B 5/06** (2006.01); **B05B 7/22** (2006.01); **B23K 10/00** (2006.01); **C23C 4/00** (2016.01); **C23C 14/54** (2006.01); **F27D 11/08** (2006.01); **H05B 7/148** (2006.01); **H05H 1/36** (2006.01); **H05H 1/42** (2006.01); **H05H 1/48** (2006.01)

CPC (source: EP US)
H05H 1/3452 (2021.05 - EP); **H05H 1/42** (2013.01 - EP); **H05H 1/48** (2013.01 - EP US)

Cited by
DE10210914A1; DE10210914B4; DE10210914C5

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AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 9003095 A1 19900322; AT E140118 T1 19960715; CA 1330831 C 19940719; DE 68926787 D1 19960808; DE 68926787 T2 19970116; EP 0436576 A1 19910717; EP 0436576 A4 19911016; EP 0436576 B1 19960703; JP 2813398 B2 19981022; JP H04500741 A 19920206

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