

Title (en)

TWO STAGE WELDER AND METHOD OF OPERATING SAME

Title (de)

ZWEISTUFIGE SCHWEISSVORRICHTUNG UND VERFAHREN ZU DEREN BETRIEB

Title (fr)

MACHINE A SOUDER A DEUX ETAGES ET PROCEDE DE FONCTIONNEMENT

Publication

EP 1490194 A4 20090701 (EN)

Application

EP 03744094 A 20030106

Priority

- US 0300320 W 20030106
- US 9127802 A 20020306

Abstract (en)

[origin: WO03076114A1] An electric arc GMAW welder (A) is provided, which welder (A) includes a high speed switching power supply (10) with a controller (130) for creating a first or second weld process across the gap between a workpiece (W) and a welding wire (E) advanced toward the workpiece (W). The first process uses a first current waveform and the second process uses a second current waveform. A circuit is provided for shifting between the first and second weld processes. The shifting circuit includes a counter (212) for counting the waveforms in the first and second processes and a circuit (190) to shift from the process being processed to the other weld process when the waveform count of the weld process being processed reaches a preselected number for such weld process.

IPC 1-7

B23K 9/09

IPC 8 full level

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CPC (source: EP KR)

B23K 9/09 (2013.01 - KR); **B23K 9/1056** (2013.01 - EP)

Citation (search report)

- [X] WO 0153030 A1 20010726 - FRONIUS SCHWEISSMASCH PROD [AT], et al
- [X] US 3826890 A 19740730 - BARTLETT P
- [A] US 6248976 B1 20010619 - BLANKENSHIP GEORGE D [US]
- [A] JP H01133679 A 19890525 - KOBE STEEL LTD
- See references of WO 03076114A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03076114 A1 20030918; AU 2003210444 A1 20030922; AU 2003210444 B2 20070823; BR 0308219 A 20041221; CA 2474938 A1 20030918; CN 100528445 C 20090819; CN 1638907 A 20050713; EP 1490194 A1 20041229; EP 1490194 A4 20090701; JP 2005523159 A 20050804; JP 4854927 B2 20120118; KR 100700994 B1 20070402; KR 20040086476 A 20041008; MX PA04008602 A 20041206; RU 2004129726 A 20050410; RU 2293000 C2 20070210

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