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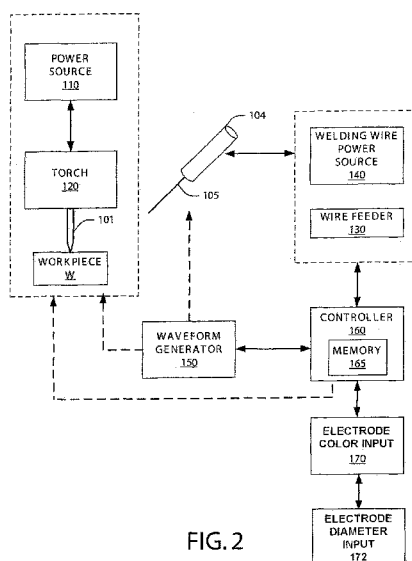


FIG. 2

(57) Abstract: A TIG welding system (100) is provided including a power source (100) having a controller (160) in communication therewith, the controller (160) having a memory (165) storing at least one waveform (190) and associated with a welding electrode composition (color) in combination with a welding electrode diameter (detected or input).

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. B23K9/167 B23K9/067 B23K9/24 ADD.		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B23K		
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CA 2 878 065 A1 (ILLINOIS TOOL WORKS [US]) 6 March 2014 (2014-03-06) paragraph [0014]; figures 1, 8, 12, 13 paragraph [0076] - paragraph [0109] -----	1-15
A	US 3 413 436 A (TALLMAN CLIFFORD S) 26 November 1968 (1968-11-26) column 3, line 24 - line 37; figure 2 -----	1,12
A	GB 1 015 693 A (PULSE ARC WELDER COMPANY) 5 January 1966 (1966-01-05) page 5, line 98 - page 7, line 28; figure 2 -----	1-5,14,15
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; align-items: center;"> <input style="width: 20px; height: 20px; margin-right: 5px;" type="checkbox"/> Further documents are listed in the continuation of Box C. </div> <div style="display: flex; align-items: center;"> <input checked="" style="width: 20px; height: 20px; margin-right: 5px;" type="checkbox"/> See patent family annex. </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* Special categories of cited documents :</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p> </div> </div>		
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INTERNATIONAL SEARCH REPORT

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