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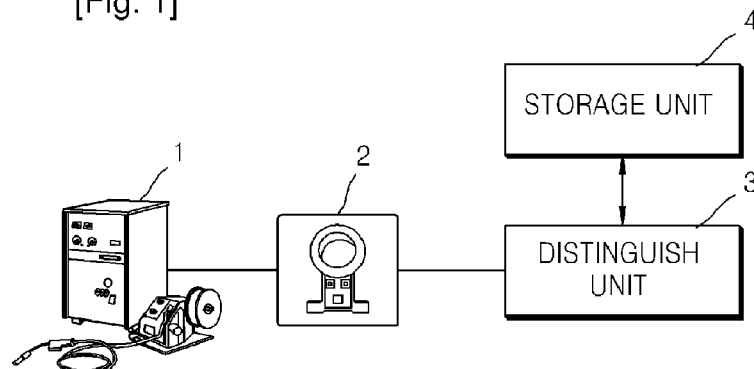
- with international search report (Art. 21(3))
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(54) Title: APPARATUS AND METHOD FOR DISTINGUISHING BETWEEN TACK-WELDING AND WELDING

[Fig. 1]



(57) Abstract: An apparatus and method for distinguishing between tack-welding and welding are provided. The apparatus for distinguishing between tack-welding and welding includes: a current sensor configured to detect arc current of a welder; and a distinguish control unit configured to distinguish whether a welding operation performed by the welder is tack-welding or welding based on the arc current detected by the current sensor for a predefined period of time. Accordingly, the amount of work performed by a welding worker can be fairly and accurately evaluated.

A. CLASSIFICATION OF SUBJECT MATTER***B23K 9/095(2006.01)i***

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)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: current, sensor, control, distinguish, tack, weld

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2009-0068767 A (KOREA ELECTROTECHNOLOGY RESEARCH INSTITUTE) 29 June 2009 See Abstract; Figure 3 and Claim 1	1,4
A	KR 10-1998-0019565 A (SAMLIP PRECISION CO., LTD.) 05 June 1998 See Abstract and Figure 4	1-5
A	KR 10-2003-0000495 A (KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY) 06 January 2003 See Abstract and Claim 1	1-5



Further documents are listed in the continuation of Box C.



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"A" document defining the general state of the art which is not considered to be of particular relevance

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INTERNATIONAL SEARCH REPORT

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KR 10-2009-0068767 A

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None

KR 10-1998-0019565 A

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None