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(54) Title: SYSTEM AND METHOD FOR ELECTRONIC INSPECTION AND RECORD CREATION OF ASSEMBLY, REPAIR AND MAINTENANCE OPERATIONS

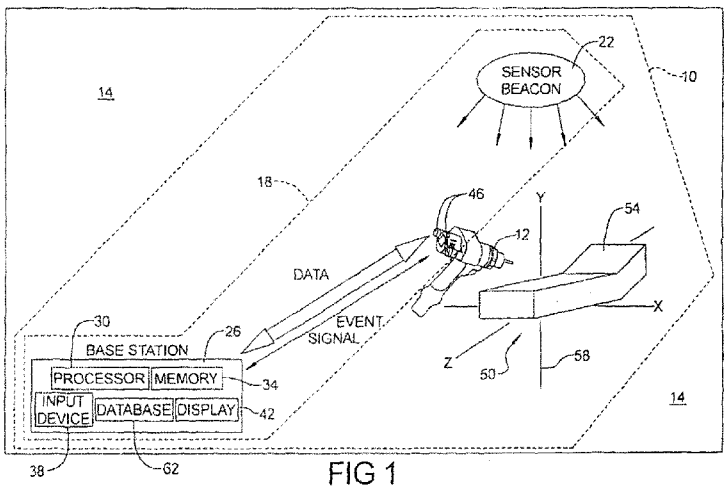


FIG 1

(57) Abstract: A system and method for generating a real time electronic quality record of an assembly, test, and repair or maintenance operation. The method involves generating inputs from a plurality of information sources located within a manufacturing environment, the information sources providing information pertaining to at least a tool being used, an individual using the tool, and an operation that the tool is performing A locating system communicates with the information sources to monitor a location and an operation of the tool. A processor communicates with the locating system to receive the generated inputs, and generate a real time electronic record upon completion of the operation that the tool is being used to perform. The electronic record shows that the operation has been performed by a given individual using the tool in accordance with a predefined standard.

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USPC - 705/7
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
USPC: 705/1.1, 7-9, 28; 700/1, 90, 95, 99-100, 108-111 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Electronic Database Searched: PubWEST(PGPB, USPT, EPAB, JPAB), Google Scholar
Search Terms Used: generate, monitor, produce, collect, determine, record, track, report, assess, evaluate, performance, report manufacture, operation, assembly, test, maintenance, repair, fieldwork, exercise, training, task, assignment, tool, device, drill, gun

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2003/0069648 A1 (Douglas et al.) 10 April 2003, see entire document; especially para [0023], [0041]-[0042], [0044]-[0046], [0049], [0051], [0074]-[0079], [0082]-[0083], [0085], [0088]-[0093], [0095], [0114], [0116]-[0117], [0119], [0121]-[0123], [0135], [0138]-[0139], [0142], [0164], [0166]-[0171], Fig. 1-3, 8-11	1-3, 5-15 ---------- 4
Y	US 6,738,748 B2 (Wetzer) 18 May 2004 (18.05.2004), entire document, especially col 7, ln 50 - col 8, ln 21	4
A	US 2008/0030322 A1 (Stauffer et al.) 07 February 2008 (07.02.2008), see entire document	1-15
A	US 2007/0106525 A1 (McKinney) 10 May 2007 (10.05.2007), see entire document	1-15
A	US 7,171,372 B2 (Daniel et al.) 30 January 2007 (30.01.2007), see entire document	1-15
X,P	US 2008/0154712 A1 (Wellman) 26 June 2008 (26.06.2008), see entire document	1-15
X,P	US 2008/0103843 A1 (Goeppert et al.) 01 May 2008 (01.05.2008), see entire document	1-15
Y,P	US 2008/0088454 A1 (Flores et al.) 17 April 2008 (17.04.2008), entire document, especially para [0089]	4

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