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(54) **Title:** ELECTRONICALLY MONITORED SAFETY LOCKOUT DEVICES, SYSTEMS AND METHODS

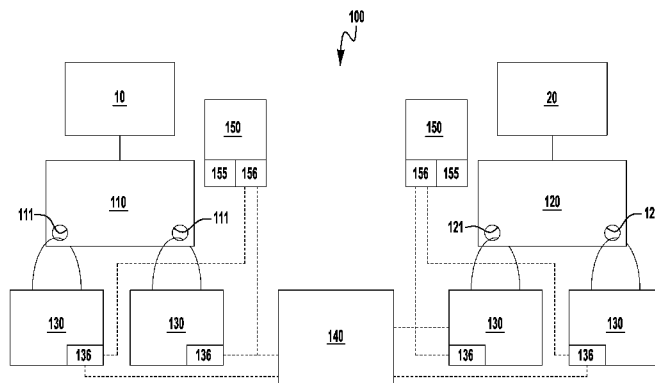


FIG. 1

(57) **Abstract:** A system for monitoring a lockout condition of a component includes a lockout device, a lock unit, and a reader. The lockout device is moveable between a lockout condition blocking operation of the component and an access condition permitting operation of the component. The lock unit is configured to be secured to a lockout interface of the lockout device to secure the lockout device in the lockout condition. One of the lockout device and the lock unit includes a communication module configured to communicate a data signal including an identification code identifying the one of the lockout device and the lock unit. The reader is remote from the one of the lockout device and the lock unit, and is configured to receive the data signal at least when the lockout device is assembled with the component and the lock unit is secured to the lockout interface of the lockout device.

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INTERNATIONAL SEARCH REPORT

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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - E05B 67/00 (2012.01) USPC - 70/264 According to International Patent Classification (IPC) or to both national classification and IPC</p>																																
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8) - E05B 65/00, 67/00; G05B 23/02 (2012.01) USPC - 70/57.1, 264; 340/3.43; 726/34, 35, 36</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase, Google Patent, Google Scholar</p>																																
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 7,236,085 B1 (ARONSON et al) 26 June 2007 (26.06.2007) entire document</td> <td>1, 3-4, 11-13, 32</td> </tr> <tr> <td>Y</td> <td></td> <td>2, 5-10, 14-31</td> </tr> <tr> <td>Y</td> <td>US 2007/0290789 A1 (SEGEV et al) 20 December 2007 (20.12.2007) entire document</td> <td>2, 14-31</td> </tr> <tr> <td>Y</td> <td>US 2009/0090148 A1 (KOLLIN et al) 09 April 2009 (09.04.2009) entire document</td> <td>5-10, 17, 21-22, 30</td> </tr> <tr> <td>Y</td> <td>US 5,438,312 A (LEWIS) 01 August 1995 (01.08.1995) entire document</td> <td>14-27</td> </tr> <tr> <td>A</td> <td>US 6,227,019 B1 (CHHATWAL) 08 May 2001 (08.05.2001) entire document</td> <td>1-32</td> </tr> <tr> <td>A</td> <td>US 2010/0269553 A1 (ZHONG) 28 October 2010 (28.10.2010) entire document</td> <td>1-32</td> </tr> <tr> <td>A</td> <td>US 6,441,735 B1 (MARKO et al) 27 August 2002 (27.08.2002) entire document</td> <td>1-32</td> </tr> <tr> <td>A</td> <td>US 2010/0326146 A1 (POWERS et al) 30 December 2010 (30.12.2010) entire document</td> <td>1-32</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 7,236,085 B1 (ARONSON et al) 26 June 2007 (26.06.2007) entire document	1, 3-4, 11-13, 32	Y		2, 5-10, 14-31	Y	US 2007/0290789 A1 (SEGEV et al) 20 December 2007 (20.12.2007) entire document	2, 14-31	Y	US 2009/0090148 A1 (KOLLIN et al) 09 April 2009 (09.04.2009) entire document	5-10, 17, 21-22, 30	Y	US 5,438,312 A (LEWIS) 01 August 1995 (01.08.1995) entire document	14-27	A	US 6,227,019 B1 (CHHATWAL) 08 May 2001 (08.05.2001) entire document	1-32	A	US 2010/0269553 A1 (ZHONG) 28 October 2010 (28.10.2010) entire document	1-32	A	US 6,441,735 B1 (MARKO et al) 27 August 2002 (27.08.2002) entire document	1-32	A	US 2010/0326146 A1 (POWERS et al) 30 December 2010 (30.12.2010) entire document	1-32
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<p>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>																														