SYSTEM, METHOD, AND APPARATUS FOR REMOTELY MONITORING THE STATUS OF A MACHINE

Abstract: A system, method, and apparatus of remotely monitoring a status of a machine monitors machine status based on light emitted by a machine status indicator light on the machine. The light is detected by a photosensor and converted into signals for transmission to a remote receiver, network server, or other monitoring device.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : G08B 21/00
   US CL. : 340/679, 531
   According to International Patent Classification (IPC) or to both national classification and IPC

B. DOCUMENTS SEARCHED
   Minimum documentation searched (classification system followed by classification symbols)
   U.S. : Please See Continuation Sheet
   Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

C. DOCUMENTS CONSIDERED TO BE RELEVANT
   Citation of document, with indication, where appropriate, of the relevant passages
   Relevant to claim No.

<table>
<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>
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<tbody>
<tr>
<td>X</td>
<td>US 4,990,896 (GRAY) 05 February 1991; col. 2, line 10; col. 1, lines 56-68; col. 2, lines 1-4; Fig. 5; col. 9, lines 10-21</td>
<td>10, 12, 14</td>
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<td>Y</td>
<td>US 5,844,808 (KONSIMO et al) 01 December 1998; col. 6, lines 26-30; col. 11, lines 40-44</td>
<td>1-9, 11, 13, 15-24, 26</td>
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<td>Y</td>
<td>US 6,631,247 (MOTOMAHA et al) 07 October 2003; col. 5, lines 4-26; Fig. 1, 16</td>
<td>4-6, 17</td>
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<td>US 4,748,254 (EXTANCE et al) 27 September 1988; col. 1, lines 52-61</td>
<td>8, 13, 20</td>
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<td>Y</td>
<td>US 6,654,673 (FERGUSON et al) 05 November 2003; col. 5, lines 30-44; col. 5, lines 12-16; col. 5, lines 59-62</td>
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<tr>
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<td>US 6,172,332 (SCHNACKENBERG et al) 09 January 2001; col. 3, lines 50-54</td>
<td>24</td>
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Date of the actual completion of the international search: 15 September 2003 (15.09.2005)
Date of mailing of the international search report: 29 SEP 2005

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 1:
340/679, 531, 539, 815.42, 539.17, 815.54, 539.24, 555-557, 641, 642, 3.43, 539.26, 539.1, 600, 601, 500, 501; 280/227.1

Continuation of B. FIELDS SEARCHED Item 3:
USPAT; EPO; IPO; DERWENT
search terms: predetermined, maintenance, reminder, sensitive, automatic, photosensor, color, alert, labor, record, check, same, run, time, light, emitting, diode, led, monitor, remote, alarm, controller