Title: MODULAR WIRELESS LIGHTING CONTROL SYSTEM USING A COMMON BALLAST CONTROL INTERFACE

Abstract: Disclosed is a modular lighting system that incorporates wireless technology and a standard interface. The lighting system may be installed in new buildings or retrofitted into existing buildings in such a way that provides many lighting configurations and programmability options while minimizing the amount of new wiring. The system includes a transceiver that controls one or more lamps using a dimming ballast or a relay and a low cost ballast. The dimming ballast, and the relay (if used) provide low voltage power to the transceiver over a cable having a standard interface, such as an RJ11 telephone jack. The transceiver provides on/off switching control and dimmer control, through the same cable, to the relay or dimming ballast. The transceiver can be located in the same room as the lamps it controls, or remotely located. A central computer or controller can control multiple transceivers over a wireless link.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H02J 13/00 (2008.04)
USPC - 340/825.52
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)
IPC(8) - H02J 13/00 (2008.04)
USPC - 340/825.52

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Patbase.com, Google Patent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<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>
</thead>
<tbody>
<tr>
<td>X - Y</td>
<td>US 5,726,644 A (JEDNACZ et al) 10 March 1998 (10.03.1998) entire document</td>
<td>1-6, 8</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C.  ☐

* Special categories of cited documents:
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  "O" document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search
23 April 2008

Date of mailing of the international search report
20 MAY 2008

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Form PCT/ISA/210 (second sheet) (April 2005)