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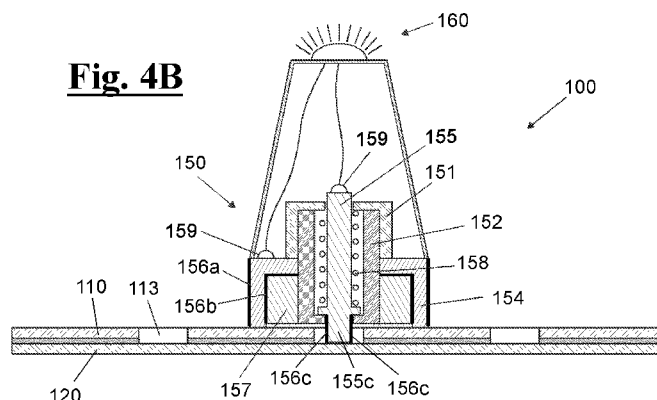
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Published:

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- (88) **Date of publication of the international search report:**
13 August 2015

(54) **Title:** AN IMPROVED SUPPORT FOR VARIOUS TYPES OF ITEMS



(57) **Abstract:** A system (100) for managing electric devices comprises a first panel (110) having at least one hole (113) and having a first conductive surface (115), a second panel (120) integral and substantially parallel to the first panel (110) and having a second conductive surface (125). In use, the first panel (110) is overlapped to the second panel (120). The system (100) is configured in such a way that the second conductive surface (125) has at least one portion (126) not covered by the first panel (110) and accessible through the or each hole (113). The first conductive surface (115) and the second conductive surface (125) are connected to an electric circuit (10) in such a way that the first conductive surface (115) has a first predetermined polarity, and the second conductive surface (125) has a second predetermined polarity, opposite to the first predetermined polarity. The system (100) for managing electric devices also comprises at least one electric connection member (150) arranged to electrically connect the first conductive surface (115) and the second conductive surface (125) to an electric device (160), in order to close the electric circuit (10) and electrically supply the electric device (160). The first and the second panel (110,120) are made of electrically conductive material, and the first panel (110) is electrically insulated by the second panel (120) by means of an insulating element (140). The insulating element (140) is an insulating glue arranged to constrain the first and the second panel (110,120), in order to make them integral with one another and arrange them close each other.

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2014/061617

A. CLASSIFICATION OF SUBJECT MATTER
INV. H01R13/62 H01R9/28
ADD.

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)
H01R F21V

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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2013/044501 A1 (RUDISILL CHARLES A [US] ET AL) 21 February 2013 (2013-02-21)	1,3,4,6
Y	paragraph [0098] - paragraph [0100] paragraph [0188] - paragraph [0189] paragraph [0182] figures 48-53	5,7-9
X	DE 19 36 991 A1 (KLICKERMANN WILLY) 4 February 1971 (1971-02-04)	1,4,6
Y	page 2, line 7 - page 3, line 6 page 3, line 14 - page 4, line 22 figures 3-10	5,7-9
X	WO 2009/082181 A2 (IVOLTA INC [KR]; KOH JAE-YONG [KR]) 2 July 2009 (2009-07-02) page 5, line 6 - line 33 page 11, line 20 - line 26 figures 4, 8	1,6-9
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

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

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

4 November 2014

Date of mailing of the international search report

06/05/2015

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 38 42 776 A1 (BARTEL BERNHARD [DE]) 5 July 1990 (1990-07-05) the whole document -----	1
A	KR 2011 0120483 A (IVOLTA CO LTD [KR]) 4 November 2011 (2011-11-04) paragraph [0007] - paragraph [0012] paragraphs [0039], [0046] figures 3,4 -----	1,4-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2014/061617

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1(completely); 3-9(partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(completely); 3-9(partially)

A system (100) for managing electric devices, ...
comprising:

- a first panel (110) provided with at least one hole (113) ... being defined laterally by a wall (113a);
 - a second panel (120) ... having a second conductive surface (125)...
- ...; said first conductive surface (115) and said second conductive surface (125) being connected to an electric circuit (10) ...;
- said system (100) for managing electric devices comprising furthermore:
- at least one electric connection member (150) arranged to electrically connect said first conductive surface (115) and said second conductive surface (125) to an electric device (160), ...
- characterized in that said first and second panel (110, 120) are made of electrically conductive material;
and in that said wall (113a) is electrically connected to said first conductive surface (115) and is coated by a layer of insulating material (114) arranged to avoid that said wall (113a) and said second conductive surface (125) are accidentally electrically connected, causing the short circuit of said electric circuit (10).

2. claims: 2, 10(completely); 3-9(partially)

A system (100) for managing electric devices, ...
comprising:

- a first panel (110) provided with at least one hole (113) ...;
 - a second panel (120) ... having a second conductive surface (125)...
- ...; said first conductive surface (115) and said second conductive surface (125) being connected to an electric circuit (10) ...;
- said system (100) for managing electric devices comprising furthermore:
- at least one electric connection member (150) arranged to electrically connect said first conductive surface (115) and said second conductive surface (125) to an electric device (160), ...
- characterized in that a first portion of said first panel (110) and/or a second portion of said second panel (120) has at least one data transmission line (111, 121) connected to a data circuit (20), said data transmission line (111, 121) arranged to be connected with said or each electric connection member (150), in such a way to enable a data transfer between said data circuit (20) and said or each electric device (160).

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2014/061617

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2013044501 A1	21-02-2013	US 2013044501 A1	21-02-2013
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		US 2010317233 A1	16-12-2010
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		WO 2011136498 A2	03-11-2011