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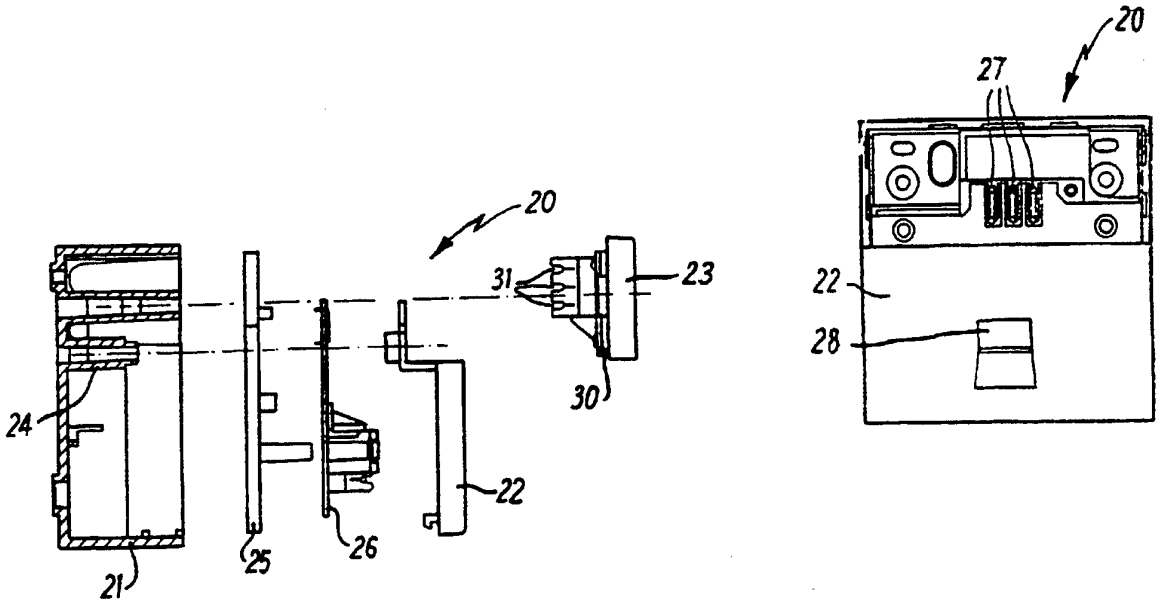
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15 September 1994 (15.09.94)

(54) Title: TELEPHONE LINE JACK CONNECTOR



(57) Abstract

A line jack connector (20) comprises a box (21) containing telephony components. Two cover plates (22, 23) cover the front face of the box (21). The main cover (22) remains in place so as to cover and protect the telephony components, whereas the access cover (23) may be removed so as to fit a telephone extension line. Resilient contacts are used to effect a good connection between the circuit board on the access cover (23) and contacts (27) on the main circuit board in the box (21). The box (21) may also house cable TV components. Electrical surge protection may be provided in a separate unit.

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INTERNATIONAL SEARCH REPORT

Interna ıl Application No
PCT/GB 94/00061

A. CLASSIFICATION OF SUBJECT MATTER
IPC 5 H04M1/02 H01R9/09

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 5 H04M H01R

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO,A,89 10015 (PANDUIT CORP.) 19 October 1989 see page 4, line 18 - page 11, line 7; figures 1-20 see page 13, line 1 - page 14, line 5; figures 27-29	13-15
X	US,A,4 778 399 (SCHENK) 18 October 1988 see column 1, line 53 - column 2, line 40	13-15
X	US,A,5 114 365 (THOMPSON ET AL) 19 May 1992 see column 4, line 45 - column 6, line 11; figures 1-8	13-15
X	US,A,4 648 682 (TUBBS) 10 March 1987 see column 4, line 4 - column 7, line 5; figures 1-10	13-15

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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"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

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Date of the actual completion of the international search	Date of mailing of the international search report
21 July 1994	09.08.94

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+ 31-70) 340-3016	Delangue, P

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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	WO,A,92 04793 (MINNESOTA MINING AND MANUFACTURING COMP.) 19 March 1992 see page 5, line 25 - page 9, line 24; figures 1-10	18,19
A	US,A,4 876 713 (CROSBY ET AL) 24 October 1989 see column 1, line 57 - column 2, line 26 see column 4, line 39 - column 5, line 40; figures 5-7	18,19
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A	US,A,4 700 384 (MEYER) 13 October 1987 see column 2, line 65 - column 5, line 47; figures 1-7	1,4,7-9
A	EP,A,0 345 988 (A.T.T.) 13 December 1989 see column 3, line 35 - column 5, line 6; figures 1,2 see column 5, line 45 - column 6, line 33; figure 4	1,2
A	US,A,4 688 875 (O'CONNOR) 25 August 1987 see column 3, line 22 - column 4, line 60; figures 1-5	1,2
A	US,A,4 269 467 (HUGHES) 26 May 1981 see column 2, line 42 - column 4, line 9; figures 1-6	1,2
A	US,A,4 407 559 (MEYER) 4 October 1983 see column 4, line 7 - column 5, line 12; figures 4-6	1
A	EP,A,0 359 223 (ALCATEL RADIOTELEPHONE) 21 March 1990 see column 2, line 1 - line 24; figures 1-5	1

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INTERNATIONAL SEARCH REPORT

:rnational application No.
PCT/GB94/00061

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

1. claims 1-12,16,17: line jack connector comprising at least two separable telephone circuitries; 2. claims 13-15: line jack connector for receiving a telephone signal; 3. claims 18,19: line jack connector providing separate compartments for a protection device.

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 searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

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.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

...ormation on patent family members

Interna... al Application No
PCT/GB 94/00061

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