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(54) **Electric multipurpose duct**

(57) Technological innovation that allows the electric current to pass and the connection to an electrical current at any point in the cable duct. Two solutions are proposed.

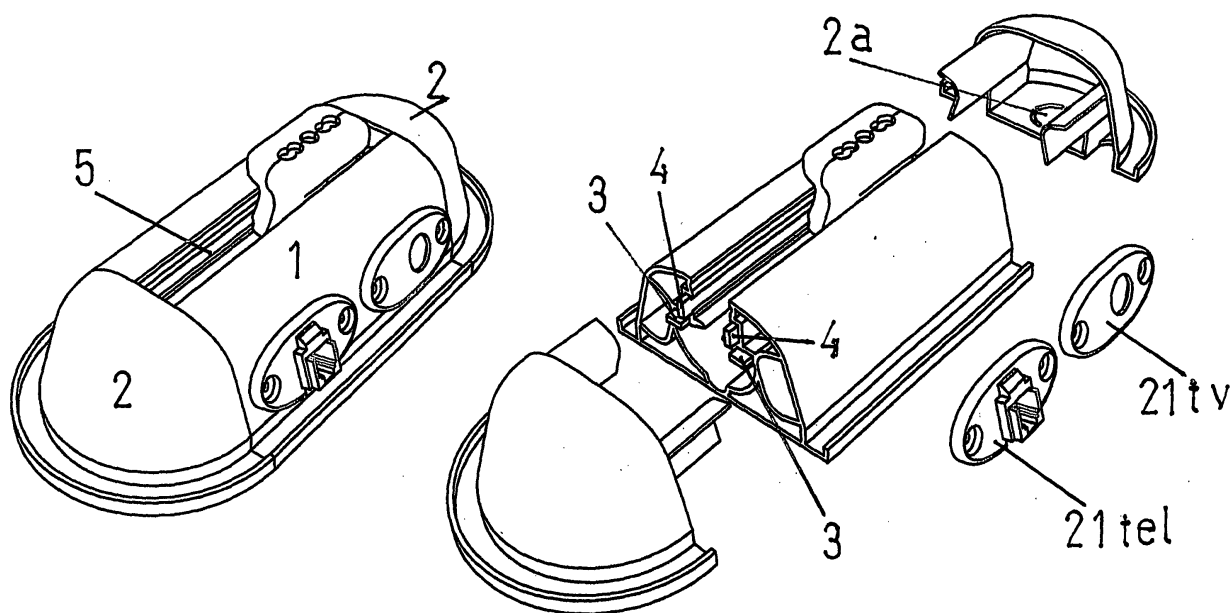
Inside the heat-resistant plastic cable duct are four twin leads made from brass, or copper, or aluminium: two for the earth and one for the positive pole and one for the negative pole.

The twin leads are positioned in the upper part of the

duct, so to avoid any contact with the outside. The cable duct has a slot that allows for the introduction of a plug, purpose-made, to connect to the electrical current at the desired point.

To utilise the plugs already in use you interject a particular shuko.

The duct may be used overlaying a table or built into the wall and can have side channels to pass through wires for the TV and for the telephone.





EUROPEAN SEARCH REPORT

Application Number
EP 10 42 5040

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2003/157819 A1 (HEALY RAFAEL [MX]) 21 August 2003 (2003-08-21) * page 2, paragraph 31 * -----	1	INV. H01R25/14 F21V23/06 H02B1/20
A	US 3 044 035 A (ADAMS JR THOMAS C) 10 July 1962 (1962-07-10) * page 1, column 2, line 46 - line 62 * -----	1	
A	US 2 192 899 A (EDMONSON GEORGE S) 12 March 1940 (1940-03-12) * page 2, line 11 - line 20 * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC) H01R F21V H02B
Place of search		Date of completion of the search	Examiner
Munich		22 November 2010	Tappeiner, Roland
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

4

EPO FORM 1503 03.82 (P04C01)



Application Number

EP 10 42 5040

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 10 42 5040

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claim: 1

Two thermoresistant plastic cable trays comprising a profile for the conduction of electricity and the option of taking electricity by using metal strips of different thickness in function of the electrical current as well as earthing

2. claim: 2

Cable trays with collateral channels for passing cables (telephone, TV, etc..) (6), used in the desired positions by piercing the cable tray and applying the designated sockets (21)

3. claim: 3

Plug design (7) (first solution) which, once inserted into slot in the cable tray, it causes the exposition of metal contacts (13). The plug present on the body two half spheres (15) which lock it in the cable tray when inserted therein.

4. claim: 4

Cylindrical Plugs (second solution), with a central stem within which slide the two C-shaped metal extensions slide for electrical supply and with a screw for ground connection.

5. claim: 5

The insertion of a holder (28) at the base of the plug cylinder and of a spring (27), pushing the cylindrical plug upwards, a holder is inserted into a groove of the cylinder (29) kept in place by four plastic cylinders (30)

6. claim: 6

Plug stem(33) of a plastic triangular projection which allows the clockwise rotational movement of the cylinder plug to be blocked at forty-five degrees.

7. claim: 7



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 10 42 5040

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

Cover applied on the cable trays having an esthetic function
and of back-end caps for superimposed cable trays

8. claim: 8

Interposition plug for domestic appliances without having
to replace the original plug which may be may be modified as
required (with therminals for the wires or to adapt to plugs
used in other countries).

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 42 5040

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-11-2010

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2003157819	A1	21-08-2003	MX	PA03001500 A	14-02-2005
US 3044035	A	10-07-1962	NONE		
US 2192899	A	12-03-1940	NONE		

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82