#### (12)

### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **21.08.2002 Bulletin 2002/34** 

(51) Int CI.<sup>7</sup>: **H01R 25/00**, H01R 31/08, H01R 31/02

(43) Date of publication A2: 19.09.2001 Bulletin 2001/38

(21) Application number: 01660047.0

(22) Date of filing: 12.03.2001

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 14.03.2000 FI 20000586

(71) Applicant: Oy Ensto Electric Ab 06100 Porvoo (FI)

#### (72) Inventors:

- Virtanen, Jarmo 06100 Porvoo (FI)
- Matikainen, Esko 06400 Porvoo (FI)
- (74) Representative: Holmström, Stefan Mikael et al Kolster Oy Ab, Iso Roobertinkatu 23, P.O. Box 148
  00121 Helsinki (FI)

## (54) Branching part for an electrical network

(57)The invention relates to a branching part (3) for an electrical network comprising: a multi-pole input (5) for receiving a multi-pole plug-in connector (4), a multipole output (6) for receiving a second multi-pole plug-in connector (4), means for connecting the respective input (5) and output (6) poles to one another, and a second output (7) including at least a first conductive element (8). In order to simplify and expedite the electrical installation work the branching part further comprises: at least two optional contact parts (11 to 13) connected to the respective input poles (5), and a connecting part (15) through which the conductive element (8) of the second output (7) can be connected to one of said optional contact parts (11 to 13) for establishing contact between the conductive element (8) and the input pole (5) corresponding to the selected contact part.

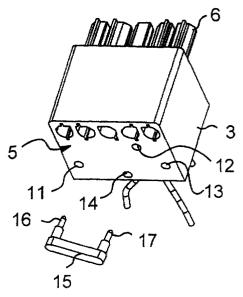


FIG. 2a



## **EUROPEAN SEARCH REPORT**

Application Number EP 01 66 0047

		ERED TO BE RELEVANT			
Category	Citation of document with ir of relevant passa	dication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)	
X	WO 92 07396 A (RICH STEWART ;PEACH PHIL 30 April 1992 (1992 * page 7, line 35 - figures 17-19 *	IP LOUIS (AU)) -04-30)	1-3,5-10	H01R25/00 H01R31/08 H01R31/02	
Α	US 4 462 656 A (BEY 31 July 1984 (1984- * figures 1,2,10 * * column 1, line 14 * column 6, line 22	07-31)	1-4		
A	EP 0 520 284 A (YAZ 30 December 1992 (1 * the whole documen	992-12-30)	1		
A	DE 43 19 832 A (MEY BUEROELEK) 5 Januar * the whole documen	y 1994 (1994-01-05)	1		
				TECHNICAL FIELDS SEARCHED (Int.CI.7)	
			-	H01R	
	The present search report has b	een drawn up for all claims			
	Place of search	Date of completion of the search		Examiner	
	BERLIN	11 June 2002	11 June 2002 Mar		
X : parti Y : parti docu A : tech O : non-	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anoth ment of the same category nological background written disclosure mediate document	E : earlier patent d after the filing d er D : document cited L : document cited	in the application	hed on, or	



**Application Number** 

EP 01 66 0047

CLAIMS INCURRING FEES							
The present European patent application comprised at the time of filing more than ten claims.							
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims 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 the first ten claims.							
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:							



# LACK OF UNITY OF INVENTION SHEET B

Application Number EP 01 66 0047

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. Claims: 1-4 A branching part for an electrical part. 2. Claims: 5-10 An electrical network component including a branching part.

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

EP 01 66 0047

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.

11-06-2002

	Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO	9207396	Α	30-04-1992	AU WO EP JP	8721691 A 9207396 A1 0553157 A1 5508515 T	20-05-1992 30-04-1992 04-08-1993 25-11-1993
us	4462656	Α	31-07-1984	DE AT AU CA DE EP JP JP NO	3044131 A1 26771 T 547609 B2 7775481 A 1174742 A1 3176141 D1 0052768 A2 1591330 C 2007152 B 57118386 A 813960 A ,B,	16-06-1982 15-05-1987 24-10-1985 03-06-1982 18-09-1984 27-05-1987 02-06-1982 30-11-1990 15-02-1990 23-07-1982 25-05-1982
EP	0520284	Α	30-12-1992	JP JP DE DE EP US	2752010 B2 5003618 A 69210109 D1 69210109 T2 0520284 A2 5295842 A	18-05-1998 08-01-1993 30-05-1996 19-09-1996 30-12-1992 22-03-1994
DE 4	4319832	Α	05-01-1994	DE AT DE DE EP ES	4319832 A1 161123 T 9321309 U1 59404763 D1 0632555 A1 2111799 T3	05-01-1994 15-12-1997 20-03-1997 22-01-1998 04-01-1995 16-03-1998

FORM P0459

 $\stackrel{Q}{=}$  For more details about this annex : see Official Journal of the European Patent Office, No. 12/82