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(72) Inventor: **Bosatelli, Domenico**
24069 Cenate Sotto (Bergamo) (IT)

(74) Representative: **Forattini, Amelia**
c/o Internazionale Brevetti
Ingg. ZINI, MARANESI & C. S.r.l.
Piazza Castello 1
20121 Milano (IT)

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(71) Applicant: **Gewiss S.P.A.**
24069 Cenate Sotto (Bergamo) (IT)

(54) **Connector for electrical systems**

(57) A connector for electrical systems has a first casing that includes pins and can be coupled to a second casing that includes receptacles, characterized in that the first casing can be coupled to the second casing

by means of an anchoring-lever connection constituted by an anchoring lever that is pivoted to one of the casings and engages two studs that are associated with the other casing.

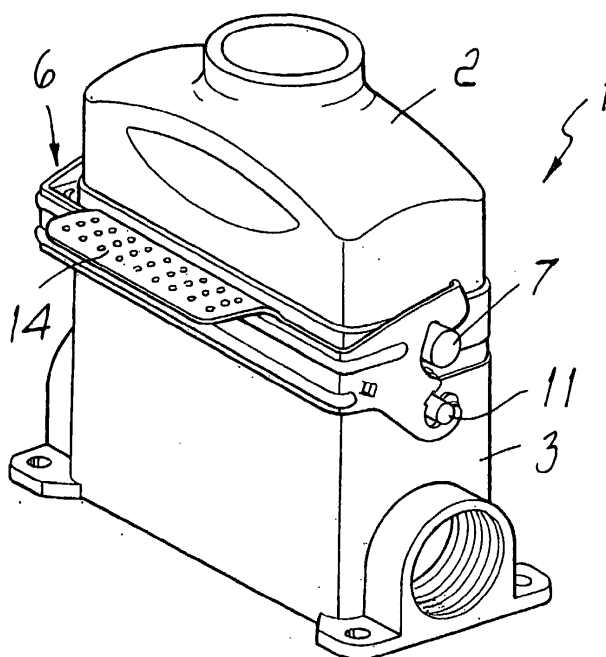


Fig. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 6320

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 405 168 A (HTS) 2 January 1991 (1991-01-02)	1-3,5,6,8	H01R13/629
Y	* column 3, line 24 - column 4, line 23; figures 1-4 *	9,12	
X	EP 1 253 676 A (WIELAND) 30 October 2002 (2002-10-30)	1,2,14	
Y	* column 2, line 18 - column 3, line 17; figures 1-3 *	9,12	
A	US 4 466 678 A (H.FUCHS) 21 August 1984 (1984-08-21)	9,12	
	* column 3, line 48 - line 63; figure 6 *		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01R
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Berlin		28 July 2004	Alexatos, G
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			

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Application Number

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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:



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 03 02 6320

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: 1-8,14

Coupling of two mating connector parts with an anchoring lever having a leaf spring at the inner side of the legs so that coupling is more stable in presence of vibrations .

2. claims: 9-13

Cable clamping portion at the rear side of pins or receptacles by using blades and screws .

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

EP 03 02 6320

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
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28-07-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0405168 A	02-01-1991	DE 8908016 U1	31-08-1989
		DE 59005236 D1	11-05-1994
		EP 0405168 A1	02-01-1991
EP 1253676 A	30-10-2002	DE 10120846 A1	28-11-2002
		EP 1253676 A2	30-10-2002
US 4401357 A	30-08-1983	CA 1171152 A1	17-07-1984
		DE 3118574 A1	16-06-1982
		GB 2075768 A ,B	18-11-1981
		MX 150338 A	17-04-1984
US 4466678 A	21-08-1984	DE 3147674 A1	23-06-1983
		AT 16140 T	15-11-1985
		DE 8135107 U1	29-04-1982
		EP 0080646 A2	08-06-1983
		ES 8308163 A1	01-11-1983
		ZA 8208701 A	28-09-1983

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