



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 828 322 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.01.1999 Bulletin 1999/01

(51) Int. Cl.⁶: **H01R 13/629**, H01R 23/70,
H01R 13/631

(43) Date of publication A2:
11.03.1998 Bulletin 1998/11

(21) Application number: **97115232.7**

(22) Date of filing: **03.09.1997**

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE**
Designated Extension States:
AL LT LV RO SI

(30) Priority: **06.09.1996 JP 9772/96 U**
06.09.1996 JP 9773/96 U
03.03.1997 JP 63755/97

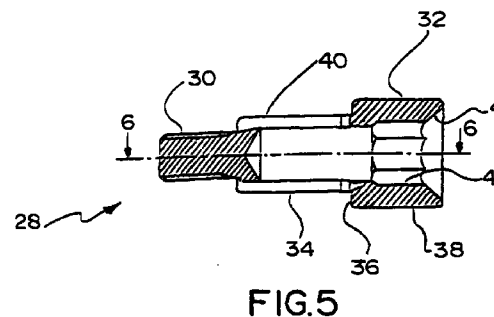
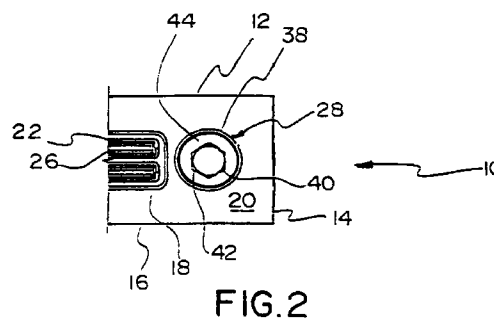
(71) Applicant: **MOLEX INCORPORATED**
Lisle Illinois 60532 (US)

(72) Inventors:
• **Matsuura, Naoya**
Yokohama-shi, Kanagawa-ken (JP)
• **Ichikawa, Shozou**
Kawasaki-shi, Kanagawa (JP)
• **Kaneko, Tomonari**
Yamato-shi Kanagawa (JP)
• **Ito, Yoshikazu**
Yamata-shi, Kanagawa (JP)

(74) Representative:
Blumbach, Kramer & Partner GbR
Patentanwälte,
Alexandrastrasse 5
65187 Wiesbaden (DE)

(54) **Connector having guide bush with internal mounting engagement**

(57) An electrical connector (10) has at least one guide bush (28) mounted upon a front face of an electrical connector in an appropriately configured, internally threaded recess in the front face. The guide bush (28) is adapted for receiving therein a guide pin from a mating electronic component. The guide bush (28) comprises an integral, generally cylindrical body having a head portion (32) of a first diameter and an externally threaded tail portion (10) of a second diameter smaller than the first diameter. The generally cylindrical body has a coaxial bore (40) at least substantially there-through and the bore has an engageable portion (42) for engaging a correspondingly shaped insertable jig, whereby the jig may be inserted into the bore for rotatably engaging the engageable portion thereof and rotatably mounting the guide bush (28) onto the connector by rotating the externally threaded tail portion (10) of the guide bush (28) into the internally threaded recess of the connector.



EP 0 828 322 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 11 5232

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.6)
D,A	US 5 340 329 A (HIRAI YUJI) 23 August 1994 * column 2, line 64 - column 3, line 33 * * column 4, line 54 - line 61; figure 2 * ---	1,10,20	H01R13/629 H01R23/70 H01R13/631
A	JP 06 140096 A (MOLEX INCORPORATED) 20 May 1994 * figures * ---	1,10,20, 21	
A	EP 0 720 254 A (IBM) 3 July 1996 * column 7, line 50 - line 54; figure 8 * ---	1-4, 10-13,20	
A	GB 2 076 492 A (MICHAEL GRAHAM REX) 2 December 1981 * page 2, line 4 - line 29; figures 1,2 * -----	1-4, 10-13,20	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12 November 1998	Examiner Kohler, J
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			

EPO FORM 1503 03.82 (P04C01)