

(11) **EP 4 155 126 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 31.05.2023 Bulletin 2023/22

(43) Date of publication A2: 29.03.2023 Bulletin 2023/13

(21) Application number: 22193250.2

(22) Date of filing: 31.08.2022

(51) International Patent Classification (IPC): **B60Q 1/00** ^(2006.01) **H01R 13/631** ^(2006.01) **H01R 13/506** ^(2006.01) **H01R 13/73** ^(2006.01)

H01R 43/26 ^(2006.01)

(52) Cooperative Patent Classification (CPC): H01R 13/506; B60Q 1/00; H01R 13/6315; H01R 13/73; H01R 43/26; H01R 2201/26

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated Extension States:

BA ME

Designated Validation States:

KH MA MD TN

(30) Priority: 02.09.2021 KR 20210116709 18.08.2022 KR 20220103400 (71) Applicant: Tyco Electronics AMP Korea Co., Ltd. Kyongsangbuk-Do 712-837 (KR)

(72) Inventors:

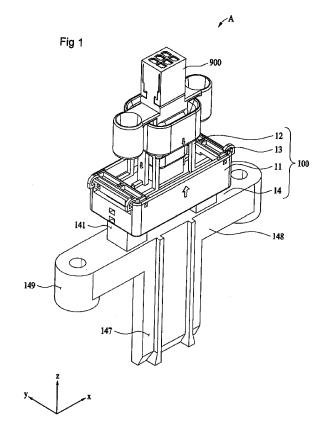
Bae, Jae Yong
 712-838 KR Gyeongsan-Si (KR)

Jung, Kyu-Taek
 712-838 KR Gyeongsan-Si (KR)

 (74) Representative: Johnstone, Douglas lan et al Baron Warren Redfern
 1000 Great West Road
 Brentford TW8 9DW (GB)

(54) POSITIONABLE CONNECTOR AND CONNECTOR ASSEMBLY INCLUDING THE SAME

(57) A positionable connector (100) includes a housing (11), a plug (12) disposed in the housing (11), a cover (13) connected to the housing (11) and configured to at least partly cover the plug (12) so that the plug (12) does not detach from the housing (11), and a fastening part (112, 122) which releasably connects the plug (12) and the housing (11), and which fixes the plug (12) and the housing (11) to each other, and when an external force is applied to the plug (12), a coupling force of the fastening part (112, 122) is lost, and the plug (12) is able to be slid along a housing plane (xy).



DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate,



EUROPEAN SEARCH REPORT

Application Number

EP 22 19 3250

10	
15	
20	
25	
30	
25	
35	
40	
45	

Category	Citation of document with indicati of relevant passages	on, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A A	US 6 159 030 A (GAWRON AL) 12 December 2000 (2 * column 5; figures 3,! US 6 325 652 B1 (GRANT 4 December 2001 (2001-: * figures 4-6 *	2000-12-12) 5 * MATTHEW [JP])	1-3,5, 13-15 4,6-12 1-15	INV. B60Q1/00 H01R13/631 H01R13/506 ADD. H01R13/73 H01R43/26
				TECHNICAL FIELDS SEARCHED (IPC) B60Q H01R
	The present search report has been of Place of search The Hague	drawn up for all claims Date of completion of the search 18 January 2023	Vau	Examiner
X : part Y : part doci A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category inological background -written disclosure rmediate document	T: theory or princi E: earlier patent d after the filing d D: document citec L: document cited &: member of the document	ocument, but publi ate I in the application for other reasons	shed on, or

50

55



Application Number

EP 22 19 3250

	CLAIMS INCURRING FEES
	The present European patent application comprised at the time of filing claims for which payment was due.
10	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):
15	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.
20	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:
25	
	see sheet B
30	
	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
35	As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
40	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:
45	
	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:
50	1–15
55	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 22 19 3250

5 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: 1-15 10 a positionable connector 2. claims: 16-18 15 a connector assembly 20 25 30 35 40 45 50 55

EP 4 155 126 A3

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

EP 22 19 3250

5

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.

18-01-2023

10	
15	
20	
25	
30	
35	
40	
45	
50	

55

cite	Patent document ed in search report		Publication date		Patent family member(s)		Publication date
US	6159030	A	12-12-2000	US WO	6159030 9857827		12-12-200 23-12-199
us 	6325652	в1	04-12-2001	EP JP US	1096617 2001126821 6325652	A	02-05-200 11-05-200 04-12-200
			ficial Journal of the Eur				