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(72) Inventors:
• **SUN, Jiguo**
Cixi east costal area
Zhejiang 315300 (CN)
• **CHEN, Yuehua**
Cixi, Zhejiang 315300 (CN)
• **WANG, Gang**
Cixi, Zhejiang 315300 (CN)

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(74) Representative: **Sun, Yiming**
HUASUN Patent- und Rechtsanwälte
Friedrichstraße 33
80801 München (DE)

(71) Applicant: **Ningbo Violet Lighting Electric Co., Ltd.**
Cixi, Zhejiang 315300 (CN)

(54) **PLUG-IN WATERPROOF WIRE CONNECTOR**

(57) The disclosure relates to a plug-in waterproof wire connector, including: a sealing cap, a sealing ring, a connection cap, a cap plate, a conductive assembly, a fixed sleeve and a fixed cap, wherein the sealing cap has a first through hole for a wire to pass through, the fixed cap has a second through hole for a wire to pass through, the connection cap has a cavity with an opening arranged at both ends, the sealing ring is arranged at the first opening of the connection cap, the sealing cap is sealed and fastened with one end of the connection cap corresponding to the first opening, the cap plate is matched with the conductive assembly, the conductive assembly is located in the fixed sleeve, the cap plate is fastened with the fixed sleeve, the first end of the fixed sleeve has a third through hole directly facing the conductive assembly, the other end of the connection cap is sealed and fastened with the first end of the fixed sleeve, and the second end of the fixed sleeve is sealed and fixed with the fixed cap. This wire connector not only can realize rapid insertion and fixing of wires, but also can realize dustproof and waterproof wiring.

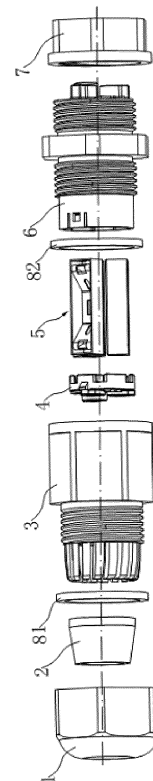


FIG. 4



EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	CN 202 856 124 U (GUANGZHOU REECO WATERPROOF & APPLIANCES INDUSTRY CO LTD) 3 April 2013 (2013-04-03) * figures 1, 2 * * abstract *	1, 6-8	INV. H01R4/48 H01R13/52 H01R13/622
Y	----- US 2009/163086 A1 (JANULIS EUGENE P [US] ET AL) 25 June 2009 (2009-06-25) * figures 1-5 * * paragraphs [0051], [0052] *	2-5	ADD. H01R11/09
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			TECHNICAL FIELDS SEARCHED (IPC)
			H01R
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 September 2017	Examiner Kandyla, Maria
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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