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(12) **United States Design Patent** (10) **Patent No.:** **US D810,029 S**
Robert et al. (45) **Date of Patent:** **** Feb. 13, 2018**

(54) **ELECTRICAL CONNECTOR**(71) Applicant: **INTERLEMO HOLDING S.A.,**
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Ecublens (CH)(***) Term: **15 Years**(21) Appl. No.: **29/604,596**(22) Filed: **May 18, 2017****Related U.S. Application Data**

(62) Division of application No. 29/499,648, filed on Aug. 18, 2014, now Pat. No. Des. 787,448.

Foreign Application Priority Data

Feb. 18, 2014 (CH) DM/082,908

(51) **LOC (11) Cl.** **13-03**(52) **U.S. Cl.**USPC **D13/151****Field of Classification Search**

USPC D13/101, 123, 133, 149, 151, 153, 154, D13/155, 156, 184, 199; D8/348, 355; 174/650, 656, 659, 665; 439/271, 275,

CPC ... H01R 4/40; H01R 4/56; H01R 4/60; H01R 4/64; H01R 9/05; H01R 9/0503; H01R 9/0518; H01R 27/00; H01R 13/58

See application file for complete search history.

References Cited**U.S. PATENT DOCUMENTS**2,410,618 A 11/1946 Zelov
3,287,031 A 11/1966 Simmons et al.

D225,740 S	1/1973	Thompson
3,810,073 A	5/1974	Zajac et al.
D245,977 S *	10/1977	Mouttet D13/133
4,155,619 A	5/1979	Bray et al.
4,191,443 A	3/1980	Doyle
4,229,064 A	10/1980	Vetter et al.
4,268,115 A	5/1981	Slemon et al.
4,316,647 A	2/1982	Bailey et al.
4,330,166 A	5/1982	Cooper et al.
4,412,717 A	11/1983	Monroe
4,422,716 A	12/1983	Morimoto et al.
4,437,726 A	3/1984	Lambert
4,448,470 A	5/1984	Peterson
4,472,012 A	9/1984	Michaels

(Continued)

OTHER PUBLICATIONS

Fischer FiberOptic Series:Connect2, Fischer Connectors SA, Switzerland, Mar. 2014.

(Continued)

Primary Examiner — Derrick Holland(74) *Attorney, Agent, or Firm* — McCarter & English, LLP**CLAIM**

The ornamental design for an electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is a front view of an electrical connector showing our new design;

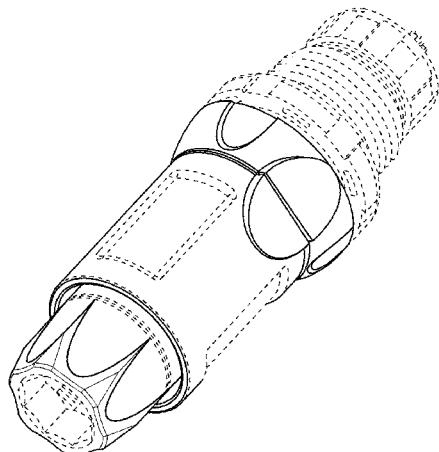
FIG. 2 is an exploded front view thereof;

FIG. 3 is a side view thereof;

FIG. 4 is a perspective view of the electrical connector shown in FIG. 1; and,

FIG. 5 is an exploded perspective view thereof.

The broken line portions of the figure drawings are included to show unclaimed subject matter only and form no part of the claimed design.

1 Claim, 3 Drawing Sheets

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(56)	References Cited	
U.S. PATENT DOCUMENTS		
4,614,029 A	9/1986	Neumann et al.
4,647,127 A	3/1987	Weingartner
4,657,327 A	4/1987	Weingartner
4,685,758 A	8/1987	Yoshida
4,708,662 A	11/1987	Klein
4,726,788 A	2/1988	F'Geppert
4,762,389 A	8/1988	Kaihara
4,770,443 A	9/1988	Yamamoto
D300,425 S	3/1989	Sumita
4,812,136 A	3/1989	Molitor
4,820,204 A	4/1989	Batty
4,834,678 A	5/1989	Emadi et al.
D301,459 S *	6/1989	Chambers D13/151
4,891,021 A	1/1990	Hayes et al.
4,915,421 A	4/1990	Dennany, Jr.
4,936,662 A	6/1990	Griffin
4,938,718 A	7/1990	Guendel
5,042,891 A	8/1991	Mulholland et al.
5,067,909 A	11/1991	Behning
5,101,463 A	3/1992	Cubukciyan et al.
5,127,843 A	7/1992	Henry et al.
5,195,905 A	3/1993	Pesci
5,212,752 A	5/1993	Stephenson et al.
5,265,183 A	11/1993	Feng et al.
5,288,243 A	2/1994	Mergless
5,356,315 A	10/1994	Jankowski et al.
5,394,494 A	2/1995	Jennings et al.
5,449,302 A	9/1995	Yarbrough et al.
D368,697 S	4/1996	Hoard
D372,221 S	7/1996	Anthony
5,637,010 A	6/1997	Jost et al.
5,666,970 A	9/1997	Smith
5,683,270 A	11/1997	Warislochner
5,704,809 A	1/1998	Davis
5,727,963 A	3/1998	LeMaster
5,746,619 A	5/1998	Harting et al.
5,890,929 A	4/1999	Mills et al.
5,984,378 A	11/1999	Ostrander et al.
6,045,404 A	4/2000	Myer
6,056,577 A	5/2000	Blanchet
D434,003 S	11/2000	Brisson
6,161,579 A	12/2000	Vulliet
D438,844 S	3/2001	Meyer et al.
6,290,525 B1	9/2001	Jacobi
6,296,508 B1	10/2001	Kuwahara et al.
6,416,334 B1	7/2002	Plishner
		D461,778 S 8/2002 Fox
		6,454,613 B2 9/2002 Valceschini
		6,508,669 B2 1/2003 Wang
		D494,136 S 8/2004 Vesecsky
		6,796,812 B2 9/2004 Reicharz
		D501,826 S 2/2005 Bachmann
		D512,378 S 12/2005 Dobler
		D512,965 S 12/2005 Dobler
		7,326,091 B2 2/2008 Nania et al.
		D566,653 S 4/2008 Sakamoto
		D582,850 S * 12/2008 Andre
		D588,991 S * 3/2009 Holliday D13/151
		D596,127 S 7/2009 Nania et al.
		D601,966 S 10/2009 Shaw
		7,661,995 B2 2/2010 Nania et al.
		D615,932 S 5/2010 Nania et al.
		D616,825 S 6/2010 Nania et al.
		7,805,838 B2 10/2010 Morana et al.
		7,938,670 B2 5/2011 Nania et al.
		D649,121 S 11/2011 Urban
		D662,063 S 6/2012 Eriksen et al.
		D664,504 S 7/2012 Alrutz
		8,225,475 B2 7/2012 Strange et al.
		D668,620 S 10/2012 Convert et al.
		8,449,314 B1 5/2013 Feist et al.
		8,597,034 B2 12/2013 Morana et al.
		8,636,551 B2 1/2014 Skidmore
		2002/0182924 A1 12/2002 Mo
		2009/0186503 A1 7/2009 Dobler
		2011/0294335 A1 12/2011 Sagdic et al.
		2014/0073164 A1 3/2014 Convert et al.

OTHER PUBLICATIONS

- Fischer FiberOptic Series: Connect2, Technical Specification, Fischer Connectors SA, Switzerland, Apr. 2014.
 Fischer Ultimate Bend Relief: Connect2, Fischer Connectors, SA, Sep. 2013.
 Hypergrip—Push/Pull Plastic Circular Connectors, Hypertronics Corporation, MA, USA.
 Mini Hypergrip Series, High Reliability Medical Connector, Hypertronics Corporation, MA, USA, 2011.
 OmneMed Circular Plastic Connector, Omnetic Connector Corporation, MN, USA.
 Redel XP series Catalog, Lemo, SA, Switzerland, Nov. 2010.
 Redel P Series Catalog, Lemo, SA, Switzerland, Oct. 2008.

* cited by examiner

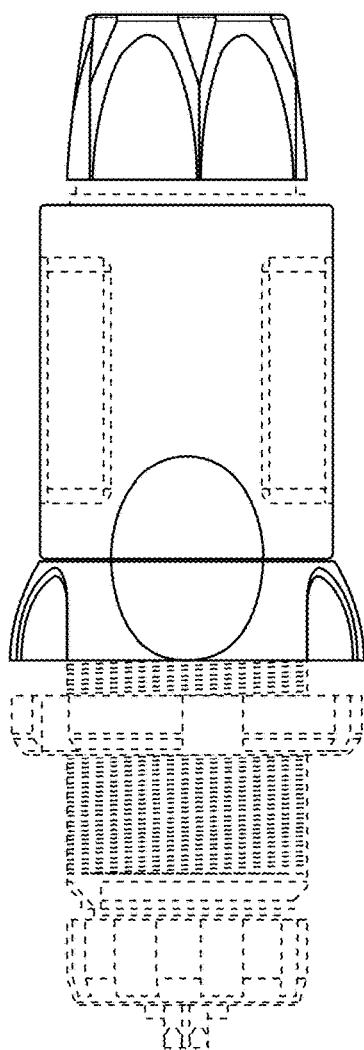


FIG. 1

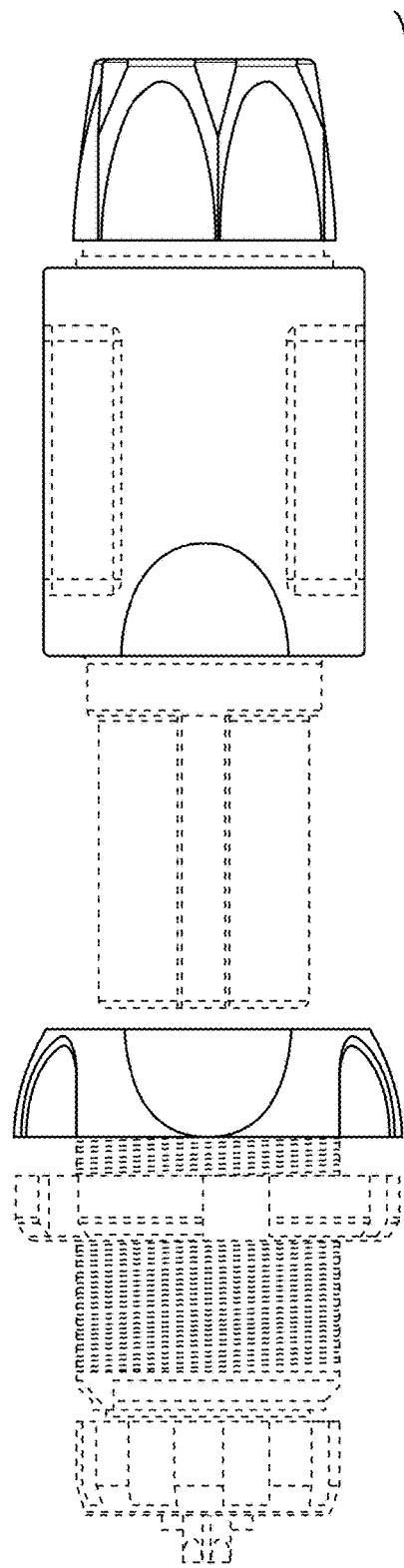


FIG. 2

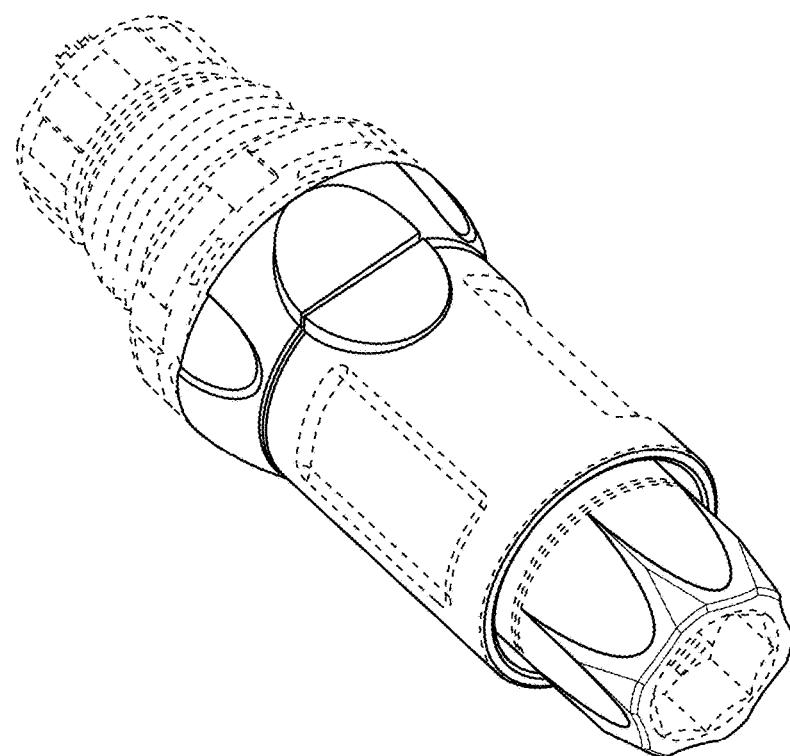


FIG. 4

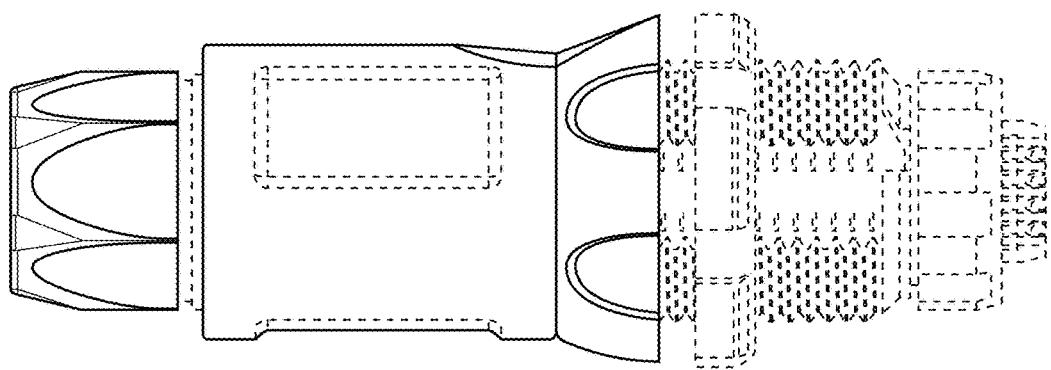


FIG. 3

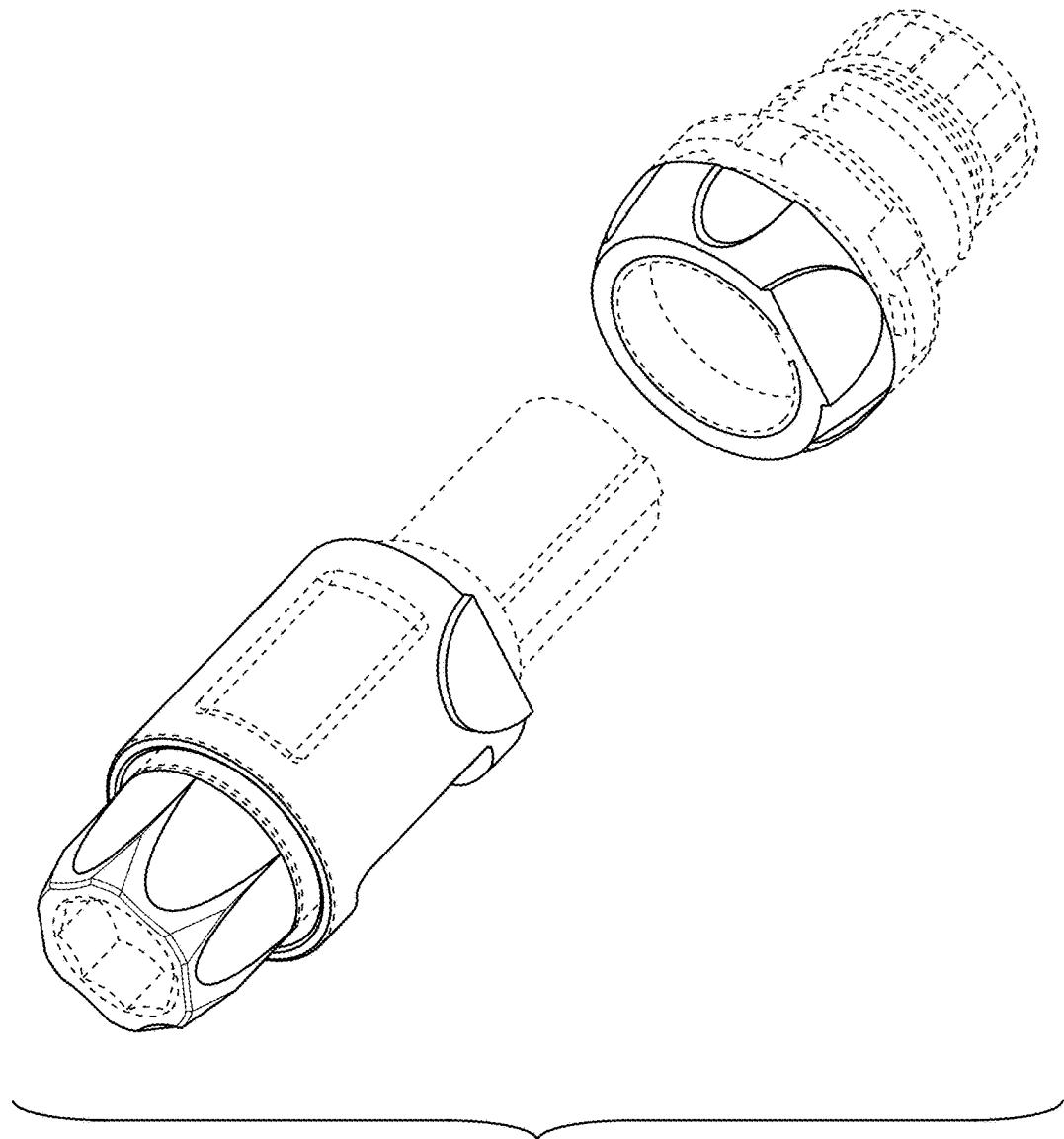


FIG. 5