



(12) **United States Design Patent**
Lambrecht

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- (54) **CABLE CONNECTOR**
- (71) Applicant: **Intuitive Surgical Operations, Inc.**,
Sunnyvale, CA (US)
- (72) Inventor: **Bram Gilbert Antoon Lambrecht**,
Redwood City, CA (US)
- (73) Assignee: **Intuitive Surgical Operations, Inc.**,
Sunnyvale, CA (US)

3,184,703 A 5/1965 Piscitello et al.
 3,274,531 A * 9/1966 Bourhenne H01R 4/2404
 439/418
 4,211,461 A 7/1980 Wescott
 D290,458 S 6/1987 O'Leary
 4,762,388 A * 8/1988 Tanaka G02B 6/389
 385/58
 5,180,316 A 1/1993 Miller et al.
 D342,937 S 1/1994 Angel, Jr. et al.
 D355,163 S * 2/1995 Dolson D13/146
 D358,131 S 5/1995 Lorentzen

(Continued)

- (**) Term: **15 Years**
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Related U.S. Application Data

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- (51) **LOC (13) Cl.** **13-03**
- (52) **U.S. Cl.**
USPC **D13/147**
- (58) **Field of Classification Search**
USPC D13/133, 137.1, 137.2, 137.3, 137.4,
D13/138.1, 138.2, 139.1, 139.2, 139.7,
D13/139.8, 146, 147, 154, 155, 199
CPC H01R 12/592; H01R 13/62; H01R 24/00;
H01R 25/00
See application file for complete search history.

References Cited

U.S. PATENT DOCUMENTS

- D141,099 S 5/1945 Baumgardner
- D141,100 S 5/1945 Baumgardner
- D141,101 S 5/1945 Baumgardner
- D188,419 S 7/1960 Danesi

OTHER PUBLICATIONS

“Molex Onnector”. Found online Nov. 16, 2021 at amazon.com. Reference dated Oct. 24, 2014. Retrieved from <https://www.amazon.com/33472-1201-CONNECTOR-HOUSING-RECEPTACLE-POSITION/dp/B011NAO25Y>. (Year: 2014).*

(Continued)

Primary Examiner — Kendra Leslie Hamilton
Assistant Examiner — Amanda Christensen
(74) *Attorney, Agent, or Firm* — Jones Robb, PLLC

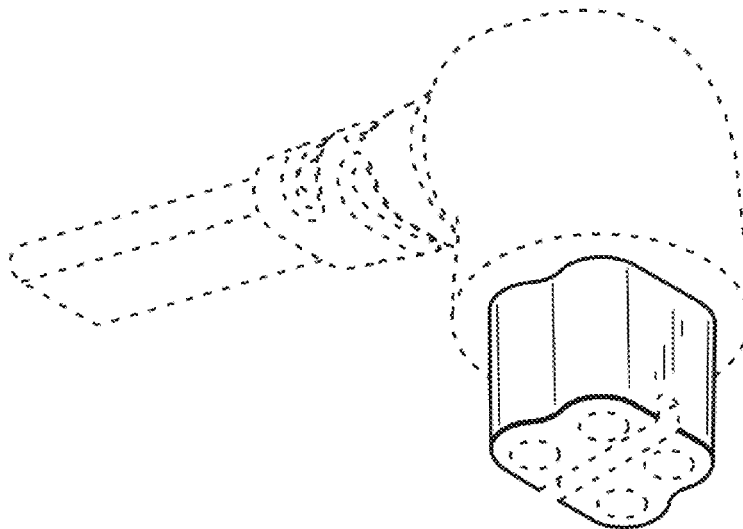
(57) **CLAIM**

The ornamental design for a cable connector, as shown and described.

DESCRIPTION

FIG. 1 is a bottom, front, left side perspective view of a cable connector, showing my new design.
FIG. 2 is a top, front, left side perspective view thereof.
FIG. 3 is a front view thereof.
FIG. 4 is a bottom view thereof.
FIG. 5 is a left side view thereof.
FIG. 6 is a top view thereof; and,
FIG. 7 is a right side view thereof.
The broken lines depict portions of the cable connector that form no part of the claimed design.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D364,332 S 11/1995 Sachs
 5,662,500 A * 9/1997 Yeah H01R 13/44
 439/181
 D412,312 S 7/1999 Myers
 D415,469 S 10/1999 Lee
 D420,980 S 2/2000 Tennessen
 D422,558 S * 4/2000 Reiss D13/133
 D428,853 S 8/2000 Burwell et al.
 D453,921 S 2/2002 Bussett et al.
 D472,523 S 4/2003 Hansen
 D475,014 S 5/2003 Kano
 D491,526 S 6/2004 D'Addario et al.
 D492,652 S 7/2004 McCoy
 D533,501 S 12/2006 Wakefield et al.
 D543,148 S 5/2007 Suckle et al.
 D560,610 S 1/2008 McCoy
 D563,883 S 3/2008 Dever
 D563,884 S 3/2008 Dever
 D587,205 S 2/2009 Wu et al.
 D617,272 S 6/2010 The
 D628,158 S * 11/2010 Skidmore D13/146
 D639,743 S 6/2011 Smith et al.
 D639,744 S 6/2011 Smith et al.
 8,052,470 B1 11/2011 Lin
 8,083,548 B1 12/2011 Lin
 8,162,684 B1 4/2012 Sochor
 D658,586 S 5/2012 Lin
 D668,225 S 10/2012 Lyford et al.
 D668,226 S 10/2012 Lyford et al.
 D672,718 S 12/2012 Lyford et al.
 D672,719 S 12/2012 Lyford et al.
 D672,720 S 12/2012 Lyford et al.
 D672,722 S 12/2012 Kreitzer et al.
 D672,723 S 12/2012 Kreitzer et al.
 D673,119 S 12/2012 Lyford et al.
 D673,120 S 12/2012 Lyford et al.
 D673,121 S 12/2012 Lyford et al.
 D676,388 S * 2/2013 Muller D13/147
 D682,787 S 5/2013 Lyford et al.
 D690,266 S 9/2013 Dachs, II
 D691,090 S 10/2013 Dachs
 D691,091 S 10/2013 Dachs, II
 D691,092 S 10/2013 Dachs
 D697,030 S 1/2014 Ledinger et al.
 D702,642 S 4/2014 Dachs, II
 D703,140 S 4/2014 Dachs, II
 D703,612 S 4/2014 Dachs, II
 D707,181 S 6/2014 Schmidt et al.
 D715,739 S * 10/2014 Chen D13/139.1
 D746,777 S 1/2016 Laven et al.
 D784,929 S 4/2017 Makimura et al.
 D787,446 S * 5/2017 Cockerill D13/147

D810,028 S 2/2018 Lambrecht
 D810,690 S 2/2018 Lambrecht
 D810,691 S 2/2018 Lambrecht
 D810,692 S 2/2018 Lambrecht
 D811,343 S 2/2018 Lau et al.
 D834,525 S 11/2018 Lambrecht et al.
 D835,586 S 12/2018 Lambrecht
 D858,453 S 9/2019 Lang et al.
 D866,473 S 11/2019 Ramakrishna Gowda et al.
 D880,427 S * 4/2020 Milroy D13/147
 D904,311 S * 12/2020 Lambrecht D13/147
 D906,249 S * 12/2020 Hasan D13/137.1
 D915,290 S * 4/2021 Ghasabi D13/146
 2004/0152354 A1 8/2004 Luther et al.
 2010/0291804 A1 11/2010 Zhang et al.
 2016/0294135 A1 10/2016 Susini et al.
 2019/0229477 A1 7/2019 Gassner

OTHER PUBLICATIONS

“Marinco Connector”. Found online Nov. 16, 2021 at amazon.com. Reference dated Dec. 16, 2010. Retrieved from <https://www.amazon.com/Marinco-320IEC15-Volt-Pole-Connector/dp/B0002BSSDI>. (Year: 2010).*

“C2G Power Cord”. Found online Nov. 17, 2021 atamazon.com. Reference dated Apr. 13, 2006. Retrieved from https://www.amazon.com/C2G-Cables-Go-27909-Universal/dp/B000ERCNVI/ref=psdc_3236443011_t1_B0000680A7?th=1. (Year: 2006).*

C2G, Kettle Lead, dated Oct. 1, 2007, Retrieved from https://www.amazon.co.uk/C2G-Metre-Power-IEC320C13-Kettle-Black/dp/B002DWA812/ref=psdc_407733031_t4_B07QF92PH2, Found online May 13, 2020 at amazon.co.uk, 2 pages.

Clones UK, UK to C5 3 Pin Laptop Power Lead, dated Oct. 18, 2007, Retrieved from https://www.amazon.co.uk/UK-plug-Laptop-power-lead/dp/B000XG4YB2/ref=pd_sbs_421_5/261-4346127-3452837, Found online May 13, 2020 at amazon.co.uk, 2 pages.

Co-pending U.S. Appl. No. 61/721,870, filed Nov. 2, 2012.

Eurosonic, Power Cord 2 PIN, dated May 4, 2007. Retrieved from https://www.amazon.co.uk/POWER-CORD-PIN-FIG8-1-5M/dp/B00008HF04/ref=pd_sim_147_5/261-4346127-3452837, Found online May 13, 2020 at amazon.co.uk, 2 pages.

Startech, CPU Power Cable, dated Oct. 8, 2008, Retrieved from https://www.amazon.co.uk/StarTech-com-ATX12V-Power-Extension-Cable-Black/dp/B00007WFHA/ref=sr_1_9?dchild=1&keywords=four+pin+cable+connector&qid=1589294196&sr=8-9, Found online May 13, 2020 at amazon.co.uk, 2 pages.

Vertut, Jean and Phillipe Coiffet, Robot Technology: Teleoperation and Robotics Evolution and Development, English translation, Prentice-Hall, Inc., Inglewood Cliffs, NJ, USA 1986, vol. 3A, 3A, 323 pages.

* cited by examiner

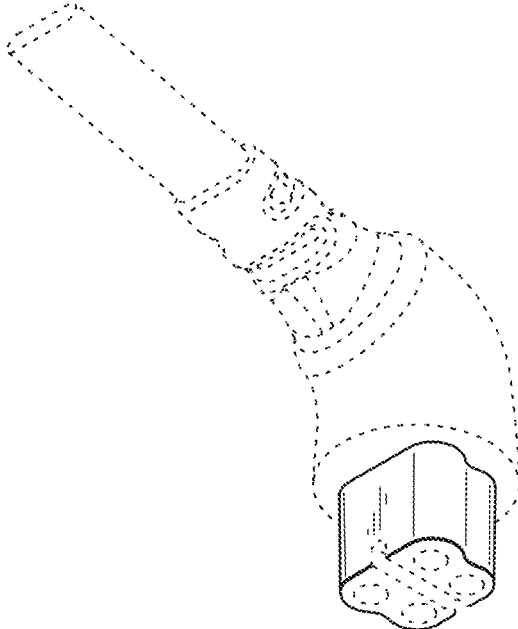


FIG. 1

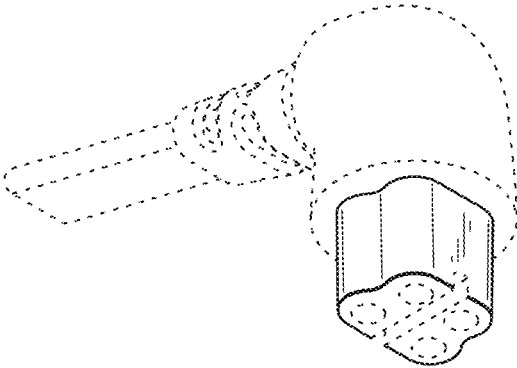


FIG. 2

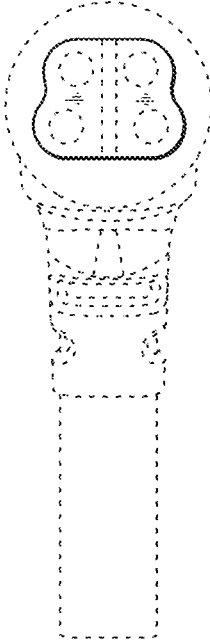


FIG. 3

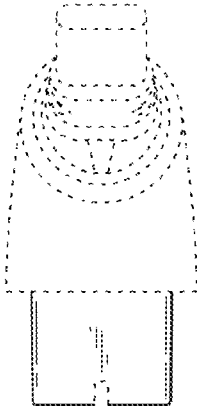


FIG. 4

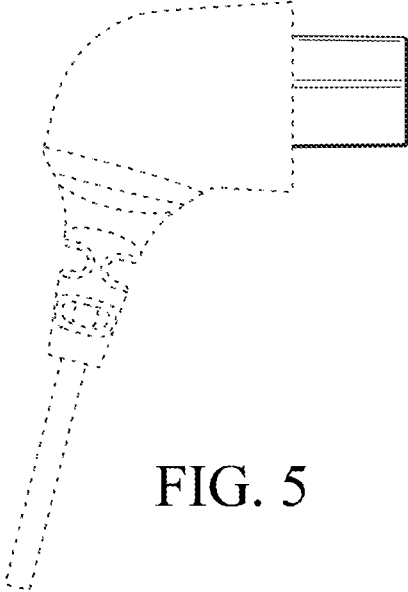


FIG. 5

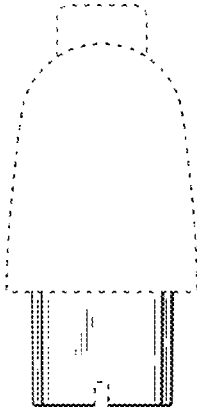


FIG. 6

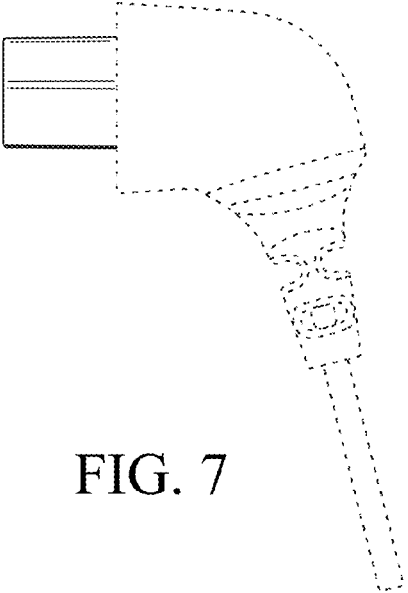


FIG. 7