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(12) **United States Design Patent**  
**Akana et al.**

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(54) **CONNECTOR**

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(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/678,447**

(22) Filed: **Jan. 29, 2019**

**Related U.S. Application Data**

(63) Continuation of application No. 29/643,441, filed on Apr. 9, 2018, now Pat. No. Des. 843,948, which is a (Continued)

(51) **LOC (13) Cl.** ..... **13-03**

(52) **U.S. Cl.**

USPC ..... **D13/147**

(58) **Field of Classification Search**

USPC ..... D13/101, 107, 110, 118, 133, 147, 153, D13/154; D14/432, 433, 435.1; D7/300.2

(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,712,271 A \* 1/1973 Greathouse ..... A61N 5/06 119/770

4,129,352 A 12/1978 Iizuka

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP D1459403 1/2013

JP D1524453 5/2015

**OTHER PUBLICATIONS**

“Oval Chrome Closet Rod”. Found online May 11, 2020 at hardwarechronicles.blogspot.com. Reference dated Sep. 10, 2009. Retrieved from <http://hardwarechronicles.blogspot.com/2009/09/whats-in-your-closet.html> (Year: 2009).\*

(Continued)

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(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a top, front, left perspective view of a connector showing our new design;

FIG. 2 is a front elevation view thereof, the rear view being a mirror image thereof;

(Continued)

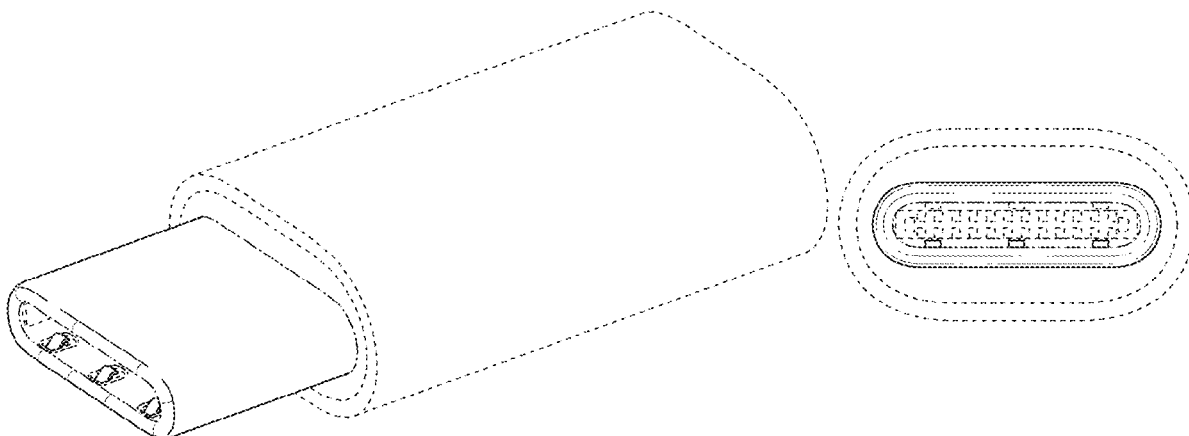


FIG. 3 is a top plan view thereof, the bottom view being identical thereof; FIG. 4 is a left side elevation view thereof; and FIG. 5 is a right side elevation view thereof. The equal-length broken lines depict portions of the connector that form no part of the claimed design. The dash-dot-dash broken lines depict boundaries of the claimed design.

**1 Claim, 3 Drawing Sheets**

**Related U.S. Application Data**

continuation of application No. 29/601,254, filed on Apr. 20, 2017, now Pat. No. Des. 817,889, which is a continuation of application No. 29/519,786, filed on Mar. 8, 2015, now Pat. No. Des. 788,041.

(58) **Field of Classification Search**

CPC ..... H01R 12/58; H01R 24/20; H01R 24/00; H01R 12/592

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D304,028 S 10/1989 Matsuzaki  
 D319,043 S 8/1991 Hayashi et al.  
 D319,813 S 9/1991 Kozono  
 D333,293 S 2/1993 Ashida  
 D363,700 S 10/1995 Buongervino et al.  
 5,568,006 A \* 10/1996 Luff ..... H03H 9/1021  
 310/340  
 D399,047 S 10/1998 Yoshida et al.  
 D406,816 S 3/1999 Hopper et al.  
 D416,065 S 11/1999 Dunn  
 D436,927 S 1/2001 Hogan  
 D487,724 S 3/2004 Hsiao  
 D488,130 S 4/2004 Hsiao  
 D521,934 S \* 5/2006 Zhuang ..... D13/147  
 D521,936 S 5/2006 Novotney et al.  
 D522,463 S 6/2006 Novotney et al.  
 7,094,089 B2 8/2006 Andre et al.  
 D546,290 S 7/2007 Yamada  
 D552,604 S 10/2007 Andre et al.  
 D572,197 S 7/2008 Chawgo et al.  
 D579,876 S 11/2008 Novotney et al.  
 D580,436 S 11/2008 Kiyomiya et al.  
 D582,850 S 12/2008 Andre  
 D600,652 S 9/2009 Hong et al.  
 D617,286 S 6/2010 Montena  
 D619,963 S 7/2010 Hou  
 D621,785 S 8/2010 Nickol  
 D636,337 S 4/2011 Smith et al.  
 D638,797 S 5/2011 Ohmori  
 D647,480 S 10/2011 Ohmori  
 8,305,750 B2 11/2012 Hsieh  
 D683,703 S 6/2013 Akana et al.  
 D684,538 S 6/2013 Akana et al.  
 D684,539 S 6/2013 Akana et al.  
 D684,976 S 6/2013 Akana et al.  
 8,454,388 B2 6/2013 Song  
 8,456,826 B2 6/2013 Mao  
 D686,217 S 7/2013 Andre  
 D692,390 S 10/2013 Smith et al.

D694,243 S 11/2013 Akana et al.  
 D699,188 S 2/2014 Akana et al.  
 D703,145 S 4/2014 Akana et al.  
 D705,175 S 5/2014 Chu  
 D705,738 S 5/2014 Schmidt et al.  
 D707,180 S 6/2014 Yi et al.  
 D707,181 S 6/2014 Schmidt et al.  
 D707,680 S 6/2014 Akana et al.  
 D707,681 S 6/2014 Akana et al.  
 D707,689 S 6/2014 Billington  
 D709,032 S 7/2014 Akana et al.  
 D713,350 S 9/2014 Akana et al.  
 D713,351 S 9/2014 Akana et al.  
 D713,352 S 9/2014 Akana et al.  
 D713,796 S 9/2014 Akana et al.  
 D714,729 S 10/2014 Akana et al.  
 D717,731 S 11/2014 Lee et al.  
 D721,654 S 1/2015 Leem  
 D731,434 S 6/2015 Akana et al.  
 D732,035 S 6/2015 Akana et al.  
 D733,142 S 6/2015 Solomon et al.  
 D734,272 S 7/2015 Dang et al.  
 D737,211 S \* 8/2015 Little ..... D13/147  
 D742,320 S 11/2015 Akana et al.  
 D743,399 S 11/2015 Frank  
 D744,428 S 12/2015 Rodriguez et al.  
 D746,291 S 12/2015 Solomon et al.  
 D746,780 S 1/2016 Akana et al.  
 D788,041 S 5/2017 Akana et al.  
 D801,938 S \* 11/2017 Shioda ..... D13/147  
 D808,342 S \* 1/2018 Yamaguchi ..... D13/147  
 D815,600 S \* 4/2018 Matsuoka ..... D13/147  
 D817,889 S 5/2018 Akana et al.  
 D831,397 S \* 10/2018 Diorio ..... D7/300.2  
 D841,008 S \* 2/2019 Yu ..... D14/433  
 D853,165 S \* 7/2019 Nordwall ..... D7/300.2  
 D853,395 S \* 7/2019 McCracken ..... D14/433  
 2007/0229025 A1 10/2007 Tsai et al.  
 2013/0021741 A1 1/2013 Huang  
 2015/0194768 A1 7/2015 Little et al.  
 2015/0340815 A1 11/2015 Gao et al.  
 2016/0043517 A1 2/2016 Wu et al.  
 2016/0079689 A1 3/2016 Wu et al.  
 2016/0079714 A1 3/2016 Wu et al.  
 2016/0093987 A1 3/2016 Wu et al.  
 2016/0141803 A1 5/2016 Hsu  
 2016/0141822 A1 5/2016 Hijazi et al.  
 2016/0149338 A1 5/2016 Xing et al.  
 2016/0172791 A1 6/2016 Fan et al.  
 2016/0172795 A1 6/2016 Zhou et al.  
 2016/0172804 A1 6/2016 Wu et al.  
 2016/0204562 A1 7/2016 Chen et al.  
 2016/0226199 A1 8/2016 Zhou et al.  
 2017/0033512 A1 \* 2/2017 Chen ..... H01R 13/6581  
 2017/0207582 A1 \* 7/2017 Hsu ..... H01R 13/665

OTHER PUBLICATIONS

“Sumex Rectangular Stainless Steel Exhaust Trim”. Found online May 11, 2020 at amazon.co.uk. Reference dated Oct. 6, 2010. Retrieved from [https://www.amazon.co.uk/Sumex-Rectangular-Stainless-Steel-Exhaust/dp/B0046304MQ/ref=pd\\_di\\_sccai\\_2/261-4346127-3452837?](https://www.amazon.co.uk/Sumex-Rectangular-Stainless-Steel-Exhaust/dp/B0046304MQ/ref=pd_di_sccai_2/261-4346127-3452837?) (Year: 2010).\*  
 “Promoter Group USB Type C”. Found online May 7, 2020 at [artstechnica.com](https://artstechnica.com). Reference dated Aug. 12, 2014. Retrieved from <https://artstechnica.com/gadgets/2014/08/small-reversible-usb-type-c-connector-finalized/> (Year: 2014).\*

\* cited by examiner

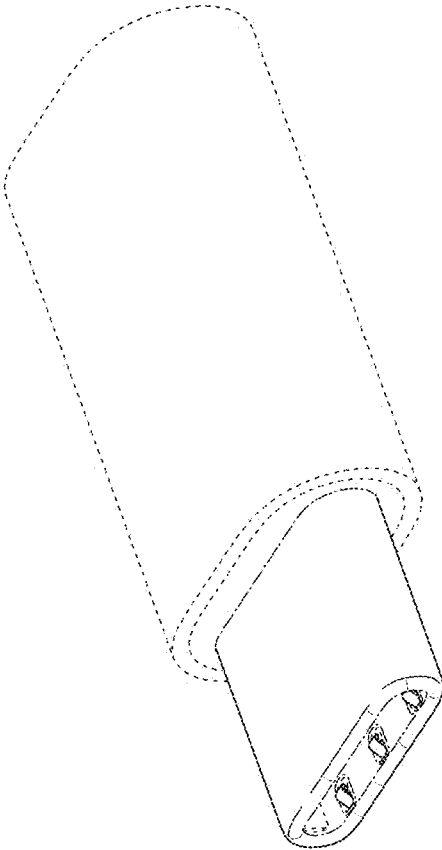
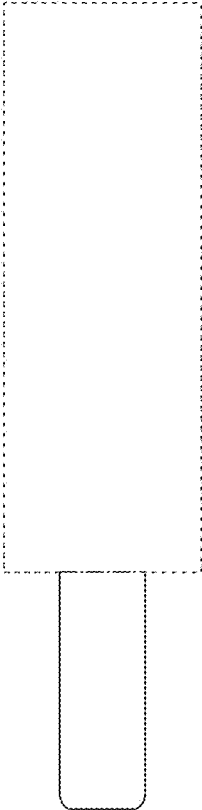
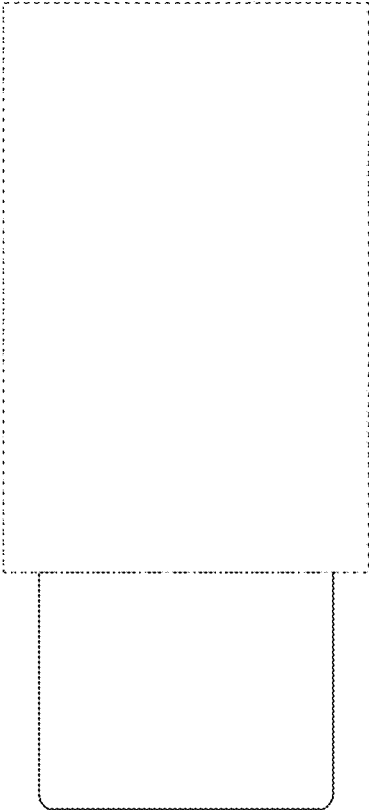


Fig. 1



*Fig. 2*



*Fig. 3*

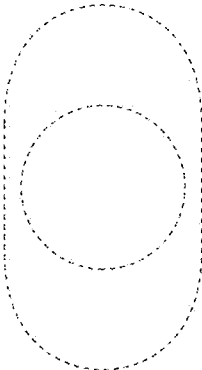


Fig. 5

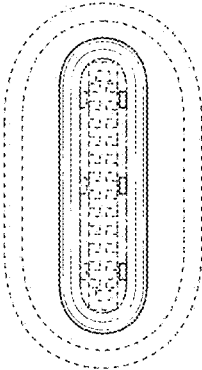


Fig. 4