



US00D928715S

(12) **United States Design Patent** (10) **Patent No.:** **US D928,715 S**
Akana et al. (45) **Date of Patent:** **** Aug. 24, 2021**

(54) **CONNECTOR**

(71) Applicant: **Apple Inc.**, Cupertino, CA (US)

(72) Inventors: **Jody Akana**, San Francisco, CA (US); **Molly Anderson**, San Francisco, CA (US); **Bartley K. Andre**, Palo Alto, CA (US); **Shota Aoyagi**, San Francisco, CA (US); **Anthony Michael Ashcroft**, San Francisco, CA (US); **Jeremy Bataillou**, San Francisco, CA (US); **Daniel J. Coster**, San Francisco, CA (US); **Daniele De Iuliis**, San Francisco, CA (US); **M. Evans Hankey**, San Francisco, CA (US); **Julian Hoenig**, San Francisco, CA (US); **Richard P. Howarth**, San Francisco, CA (US); **Jonathan P. Ive**, San Francisco, CA (US); **Duncan Robert Kerr**, San Francisco, CA (US); **Matthew Dean Rohrbach**, San Francisco, CA (US); **Peter Russell-Clarke**, San Francisco, CA (US); **Benjamin Andrew Shaffer**, San Jose, CA (US); **Mikael Silvano**, San Francisco, CA (US); **Christopher J. Stringer**, Woodside, CA (US); **Eugene Antony Whang**, San Francisco, CA (US); **Rico Zörkendörfer**, San Francisco, CA (US)

(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)

Primary Examiner — Kendra Leslie Hamilton

Assistant Examiner — Amanda Christensen

(74) *Attorney, Agent, or Firm* — Saidman DesignLaw Group, LLC

(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)

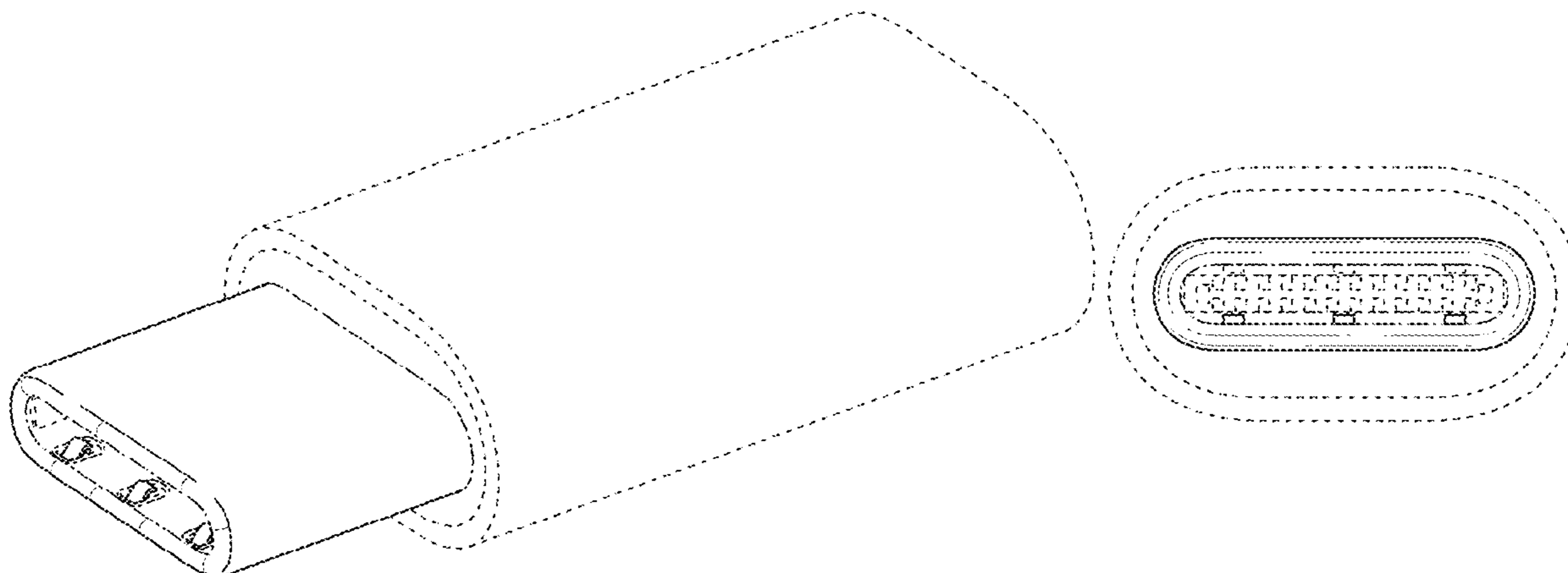


FIG. 3 is a top plan view thereof, the bottom view being identical thereof;
 FIG. 4 is a left side elevation view thereof; and,
 FIG. 5 is a right side elevation view thereof.
 The equal-length broken lines depict portions of the connector that form no part of the claimed design. The dash-dot-dash broken 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? (Year: 2010).*

“Promoter Group USB Type C”. Found online May 7, 2020 at artstechnica.com. Reference dated Aug. 12, 2014. Retrieved from <https://arstechnica.com/gadgets/2014/08/small-reversible-usb-type-c-connector-finalized/> (Year: 2014).*

* cited by examiner

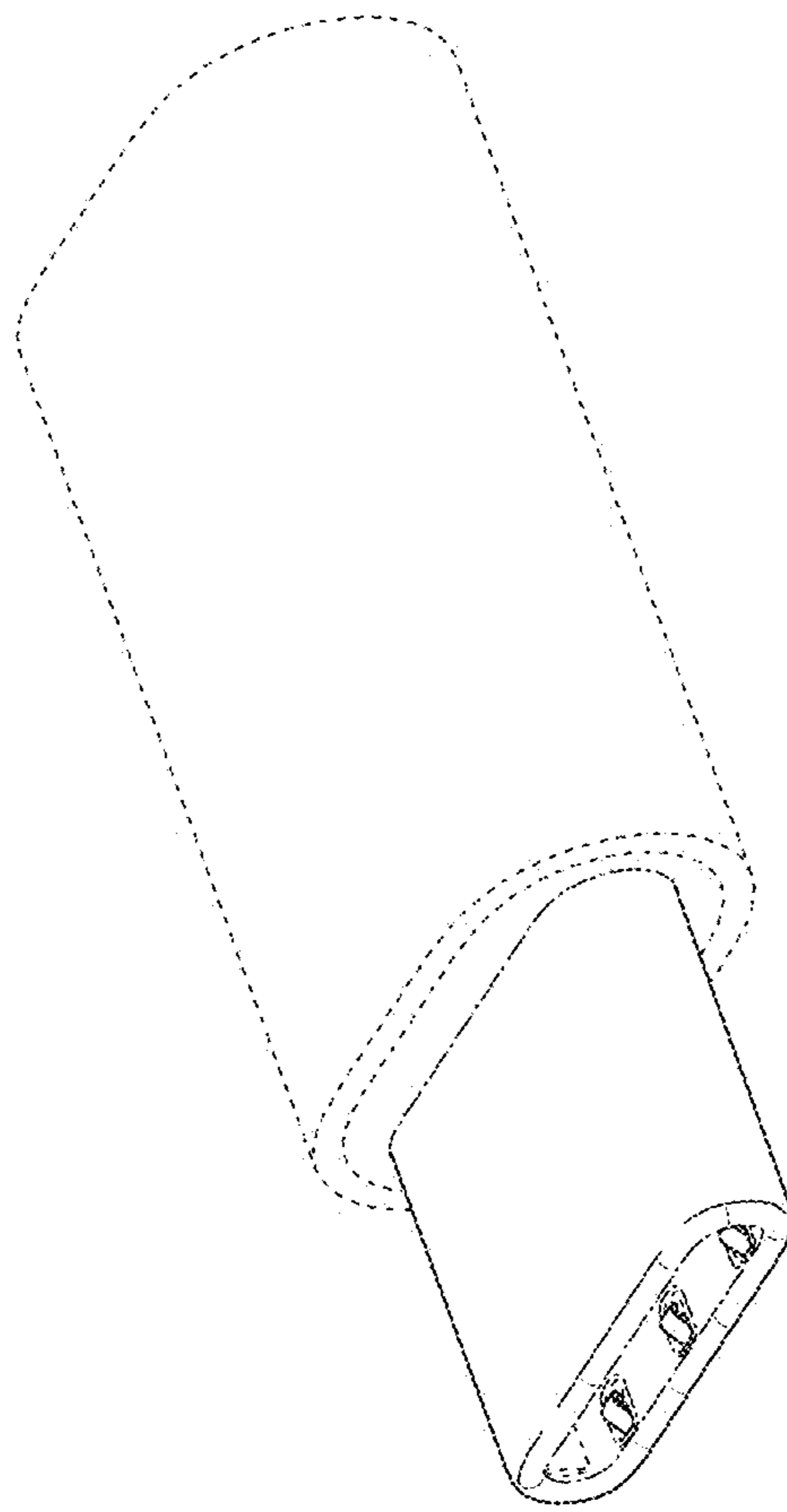


Fig. 1

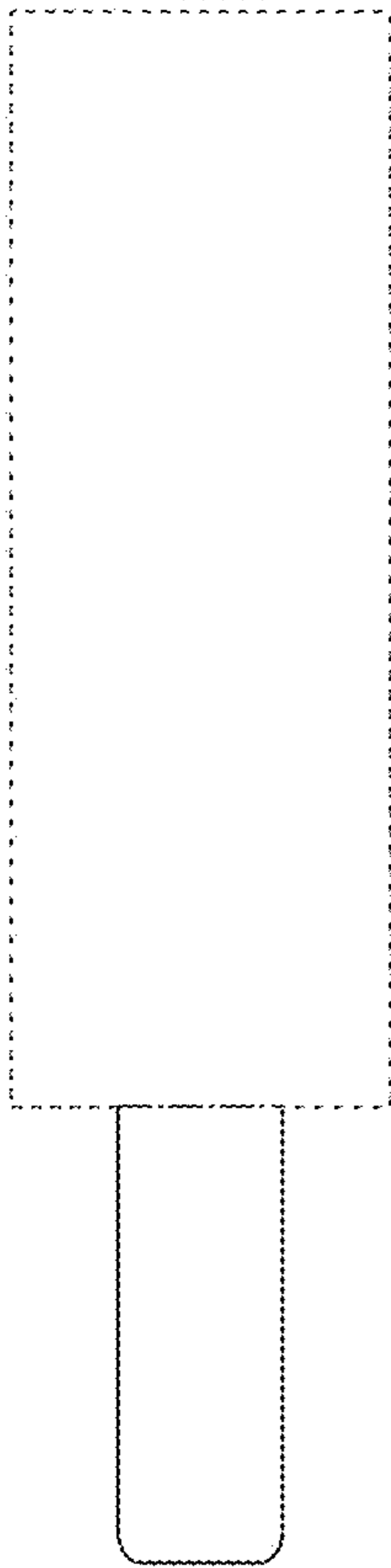


Fig. 2

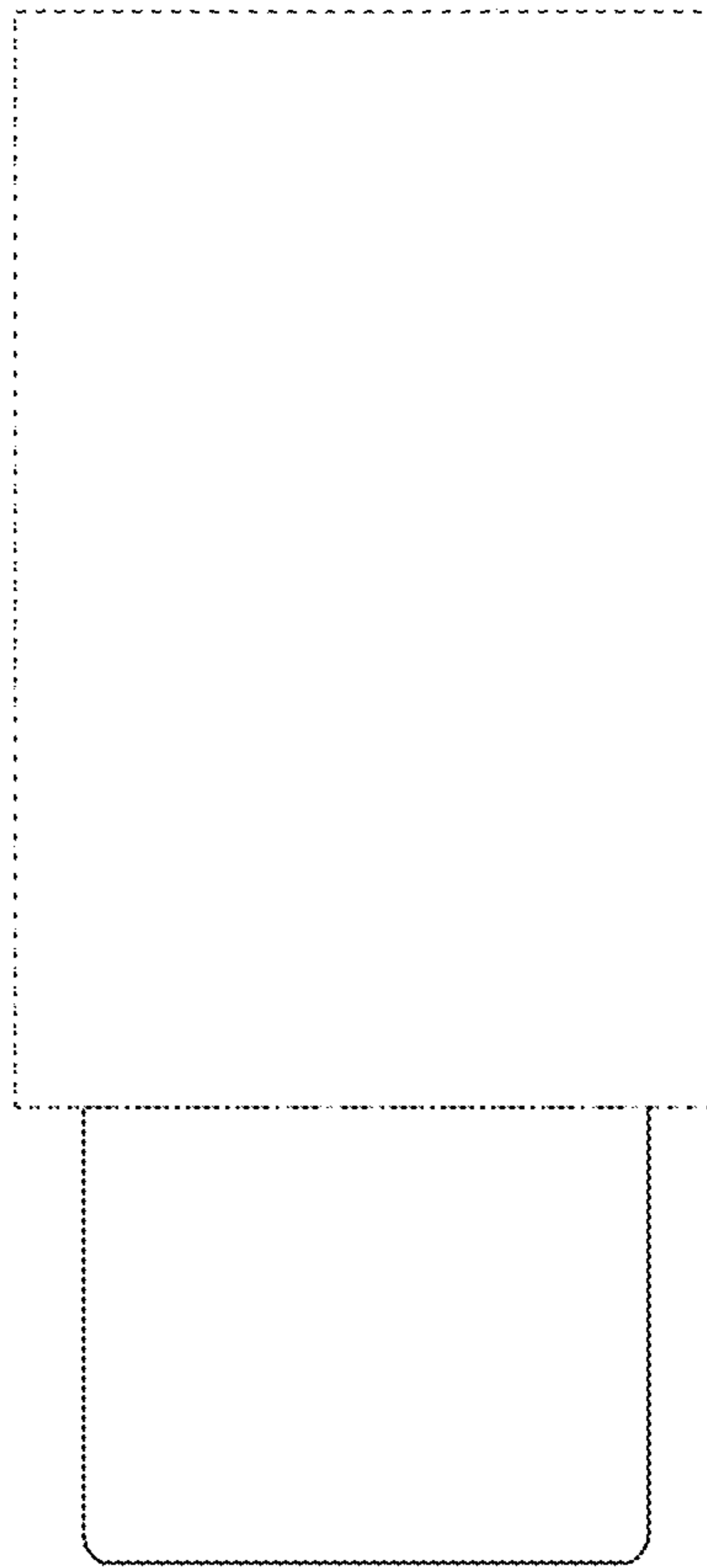


Fig. 3

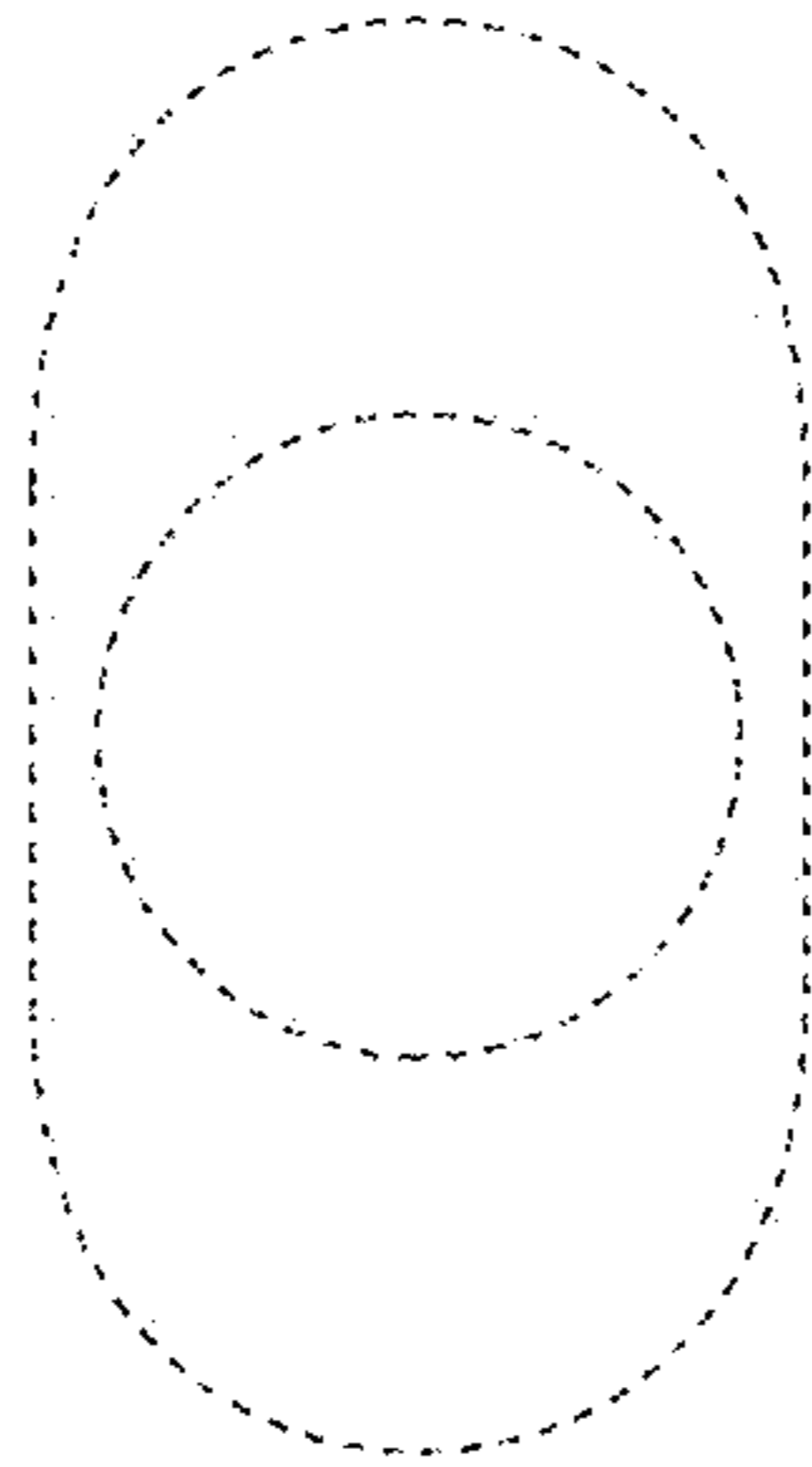


Fig. 5

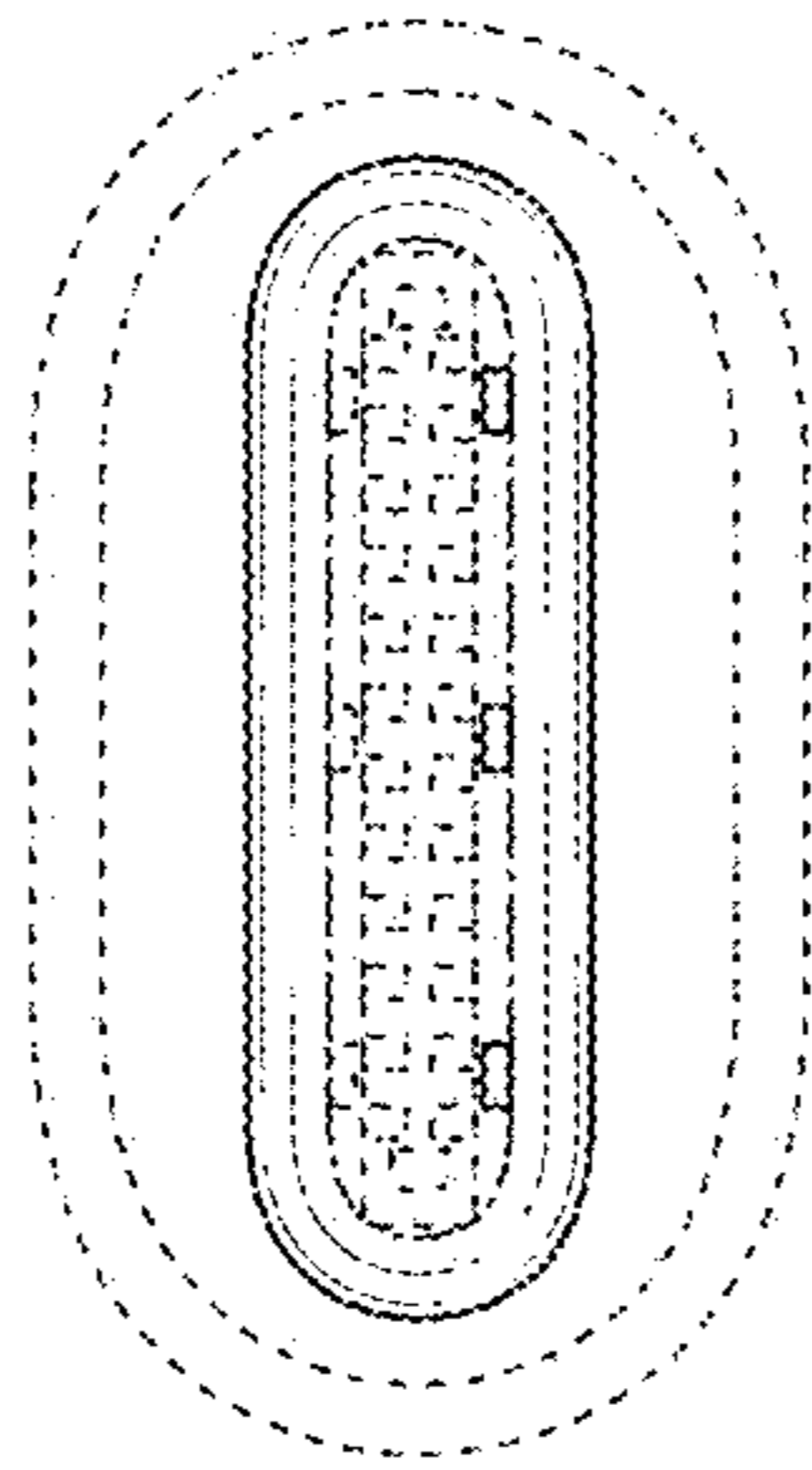


Fig. 4