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(12) **United States Design Patent** (10) **Patent No.:** **US D814,422 S**
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(54) **CONNECTOR**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

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Related U.S. Application Data

(63) Continuation of application No. 29/529,183, filed on Jun. 4, 2015, now Pat. No. Des. 751,991, which is a continuation of application No. 29/449,244, filed on Mar. 14, 2013, now Pat. No. Des. 731,434, which is a continuation-in-part of application No. 29/432,034,

filed on Sep. 12, 2012, and a continuation of application No. 29/426,587, filed on Jul. 6, 2012, now Pat. No. Des. 684,539.

(51) **LOC (11) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/147**

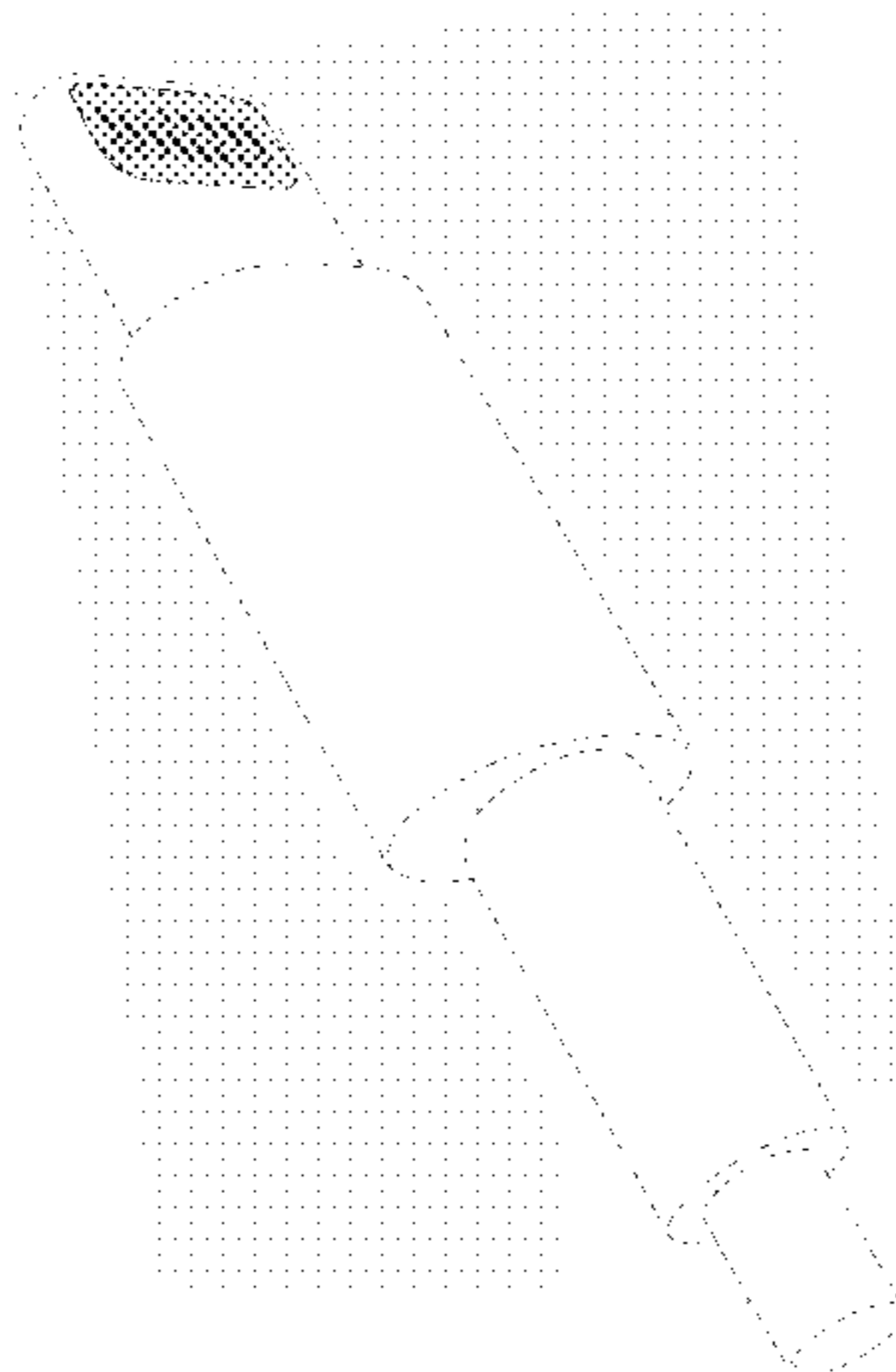
(58) **Field of Classification Search**
USPC D13/133, 146, 147, 154, 156, 184, 199;
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CPC H01R 4/24; H01R 13/52; H01R 13/533;
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H01R 4/66; H01R 24/20; H01R 24/60;
H01R 25/00; H01R 27/00; H01R 13/63;
H01R 13/639; H01R 13/6477; H01R
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D304,028 S	10/1989	Matsuzaki
D369,157 S	4/1996	Ohmori et al.
D399,047 S	10/1998	Yoshida et al.
6,137,710 A	10/2000	Iwasaki et al.
D452,245 S	12/2001	Wallace et al.
D452,246 S	12/2001	Wallace et al.
6,483,038 B2	11/2002	Lee et al.
D487,747 S	3/2004	Yu et al.
D525,977 S	8/2006	Yao
7,094,089 B2	8/2006	Andre et al.
D543,156 S	5/2007	Suckle
D552,099 S	10/2007	Nishizawa et al.
D558,145 S	12/2007	Stavoe et al.
D563,899 S	3/2008	Goetz et al.
7,354,312 B2	4/2008	Chuang
D586,293 S	2/2009	Fujino
D588,545 S	3/2009	Andre et al.
D594,418 S	6/2009	Fujino et al.
D607,886 S	1/2010	Bolotin et al.
D612,809 S	3/2010	Zhao et al.
D621,785 S	8/2010	Nickol
D636,337 S	4/2011	Smith et al.
D637,193 S	5/2011	Andre et al.
D643,040 S	8/2011	Sedio et al.
D655,296 S	3/2012	Andre et al.
D656,147 S	3/2012	Schlossstein
D658,665 S	5/2012	Akana et al.
D659,150 S	5/2012	Andre



D659,754 S	8/2012	Andre	
D665,754 S	8/2012	Cobbett et al.	
D684,976 S	5/2013	Akana et al.	
D683,703 S	6/2013	Akana et al.	
D684,538 S	6/2013	Akana et al.	
D684,539 S	6/2013	Akana et al.	
8,454,388 B2	6/2013	Song	
8,561,879 B2	10/2013	Jol et al.	
D693,828 S	11/2013	Akana et al.	
D694,243 S	11/2013	Akana et al.	
8,637,165 B2	1/2014	Siahaan et al.	
D699,188 S	2/2014	Akana et al.	
8,683,090 B2	3/2014	Mullins et al.	
D703,145 S	4/2014	Akana et al.	
8,708,745 B2	4/2014	Golko et al.	
D705,174 S	5/2014	Wong	
D705,175 S	5/2014	Chu	
D705,176 S	5/2014	Akana et al.	
8,721,356 B2	5/2014	Webb et al.	
D707,680 S	6/2014	Akana et al.	
D707,681 S	6/2014	Akana et al.	
8,747,155 B2	6/2014	Weber et al.	
8,762,605 B2	6/2014	Terlizzi et al.	
D709,032 S	7/2014	Akana et al.	
8,777,666 B2	7/2014	Golko et al.	
8,799,527 B2	8/2014	Mullins et al.	
8,804,355 B2	8/2014	Utterman et al.	
D712,279 S	9/2014	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.	
D713,353 S	9/2014	Akana et al.	
D713,354 S	9/2014	Akana et al.	
D713,796 S	9/2014	Akana et al.	
8,845,363 B2	9/2014	Ardisana et al.	
D716,234 S	10/2014	Tien	
D716,235 S	10/2014	Tien	
8,882,529 B2	11/2014	Weber et al.	
8,886,849 B2	11/2014	Golembeski et al.	
8,888,510 B2	11/2014	Webb et al.	
8,891,216 B2	11/2014	Mullins et al.	
8,905,793 B2	12/2014	Golko et al.	
8,974,126 B2	3/2015	Sloey et al.	
8,986,029 B2	3/2015	Webb et al.	
9,011,161 B2	4/2015	Weber et al.	
9,011,172 B2	4/2015	Weber et al.	
9,011,179 B2	4/2015	Siahaan et al.	
9,021,159 B2	4/2015	Fritchman et al.	
D731,434 S *	6/2015	Akana	D13/147
D732,035 S *	6/2015	Akana	D14/433
9,059,531 B2	6/2015	Schmidt et al.	
9,065,212 B2	6/2015	Golko et al.	
9,092,233 B2	7/2015	Andrews et al.	
9,093,803 B2	7/2015	SooHoo et al.	
9,112,327 B2	8/2015	Sarwar et al.	
9,146,888 B2	9/2015	Terlizzi et al.	
D742,320 S	11/2015	Akana et al.	
9,240,700 B2	1/2016	Terlizzi et al.	
D751,560 S	3/2016	Akana et al.	
2002/0170972 A1	11/2002	Kim	
2003/0225954 A1	12/2003	Wu	
2005/0124219 A1	6/2005	Chen et al.	
2005/0202727 A1	9/2005	Andre et al.	
2010/0151734 A1	6/2010	Wit et al.	
2011/0199729 A1	8/2011	Hsieh	
2012/0252256 A1	10/2012	Zhu et al.	
2013/0084760 A1	4/2013	Siahaan et al.	
2013/0175326 A1	7/2013	Jol et al.	
2013/0238823 A1	9/2013	Terlizzi et al.	
2013/0244472 A1	9/2013	Weber et al.	
2013/0244489 A1	9/2013	Terlizzi et al.	
2013/0244491 A1	9/2013	Sarwar et al.	
2013/0244492 A1	9/2013	Golko et al.	
2013/0279055 A1	10/2013	Mullins et al.	
2013/0286522 A1	10/2013	Mullins et al.	
2013/0304942 A1	11/2013	Golembeski et al.	
2013/0305066 A1	11/2013	Mullins et al.	
2014/0013012 A1	1/2014	Terlizzi et al.	
2014/0057479 A1	2/2014	Weber et al.	

2014/0069709 A1	3/2014	Schmidt et al.
2014/0070774 A1	3/2014	Terlizzi et al.
2014/0073170 A1	3/2014	Golko et al.
2014/0073178 A1	3/2014	Webb et al.
2014/0073182 A1	3/2014	Ardisana, II et al.
2014/0073183 A1	3/2014	Golko et al.
2014/0073185 A1	3/2014	Siahaan et al.
2014/0073186 A1	3/2014	Webb
2014/0073191 A1	3/2014	Colahan et al.
2014/0073201 A1	3/2014	Weber et al.
2014/0073206 A1	3/2014	Golko et al.
2014/0075051 A1	3/2014	Zadesky et al.
2014/0075061 A1	3/2014	Fritchman et al.
2014/0075067 A1	3/2014	Mullins et al.
2014/0075169 A1	3/2014	Andrews et al.
2014/0075210 A1	3/2014	Rich et al.

FOREIGN PATENT DOCUMENTS

AU	346798	2/2013
CL	3451-12	7/2013
CN	D131168 S	10/2009
CN	201130377608.3	5/2012
CN	201220688401.7	7/2012
CN	201320217628.8	2/2013
CN	102269849 B	9/2014
EM	000623848-0001	2/2007
EM	001222905-0018	10/2010
WO	WO 2006/074348 A1	7/2006
WO	WO 2011/150403 A1	12/2011
WO	WO 2011/160138 A2	12/2011
WO	WO 2011/163256 A1	12/2011
WO	WO 2011/163260 A1	12/2011
WO	WO 2012/103383 A3	8/2012
WO	WO 2013/0817041 A1	6/2013
WO	WO 2014/040224 A1	3/2014
WO	WO 2014/040231 A1	3/2014

OTHER PUBLICATIONS

U.S. Appl. No. 29/432,034, filed Sep. 12, 2012; Akana et al.

* cited by examiner

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(57) CLAIM

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

DESCRIPTION

The file of this patent contains at least one drawing/photograph executed in color. Copies of this patent with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a bottom front perspective view of a connector showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a side view thereof;
FIG. 5 is another side view thereof;
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.
The dashed broken lines in the figures show portions of the connector that form no part of the claimed design.

The dot-dash broken lines in the figures show boundaries that form no part of the claimed design.

**1 Claim, 4 Drawing Sheets
(2 of 4 Drawing Sheet(s) Filed in Color)**

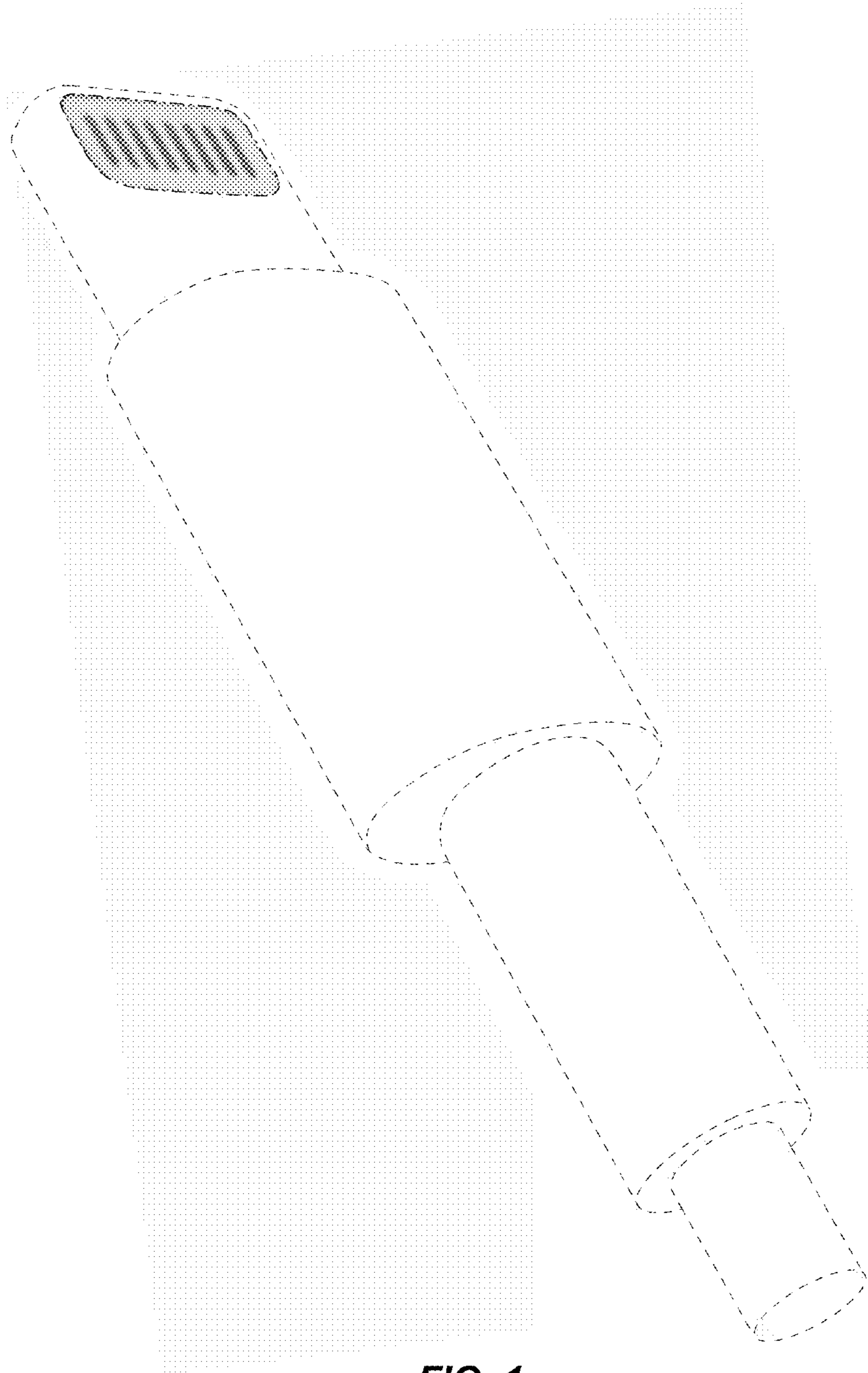


FIG. 1

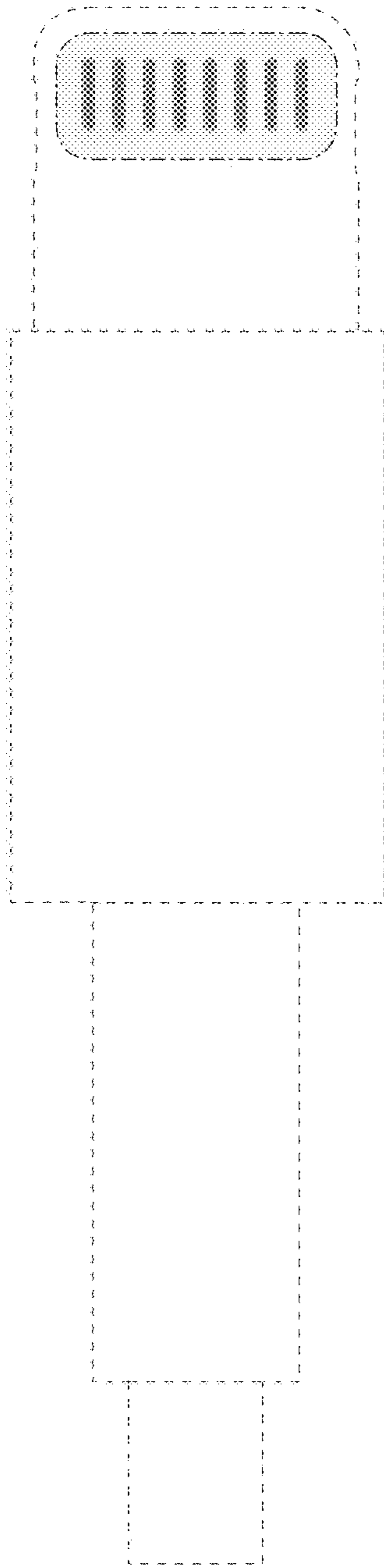


FIG. 2

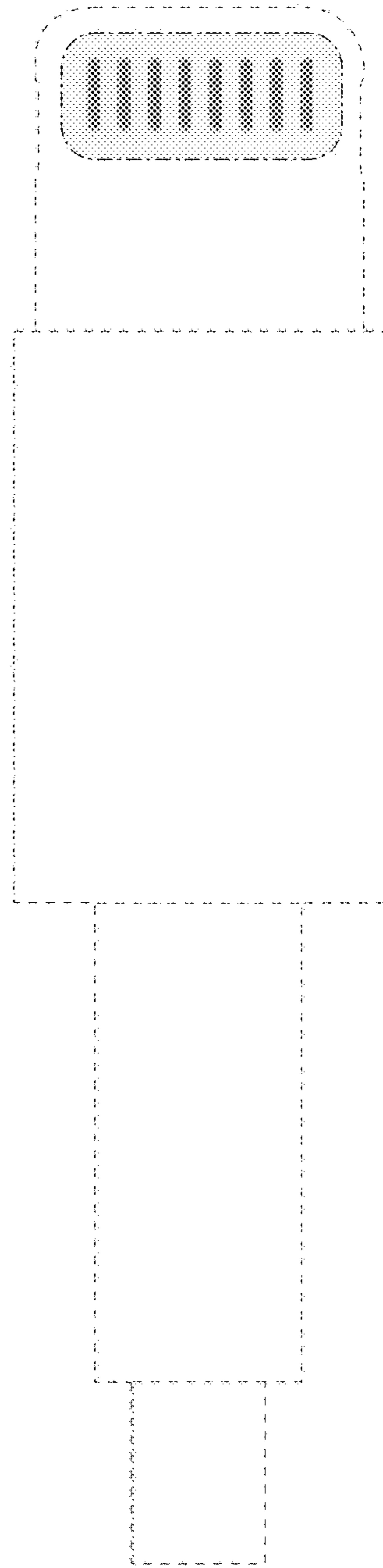


FIG. 3

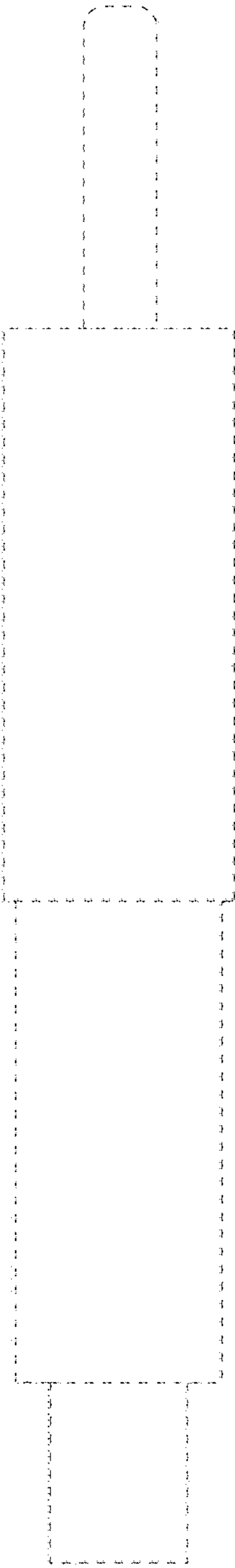


FIG. 4

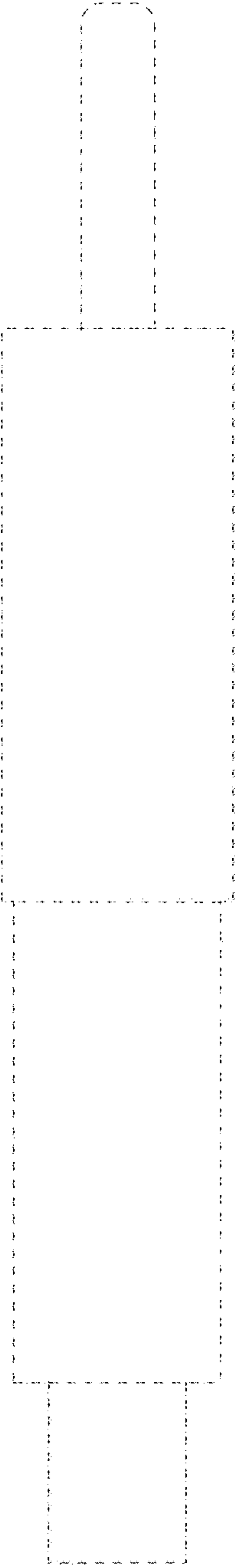


FIG. 5

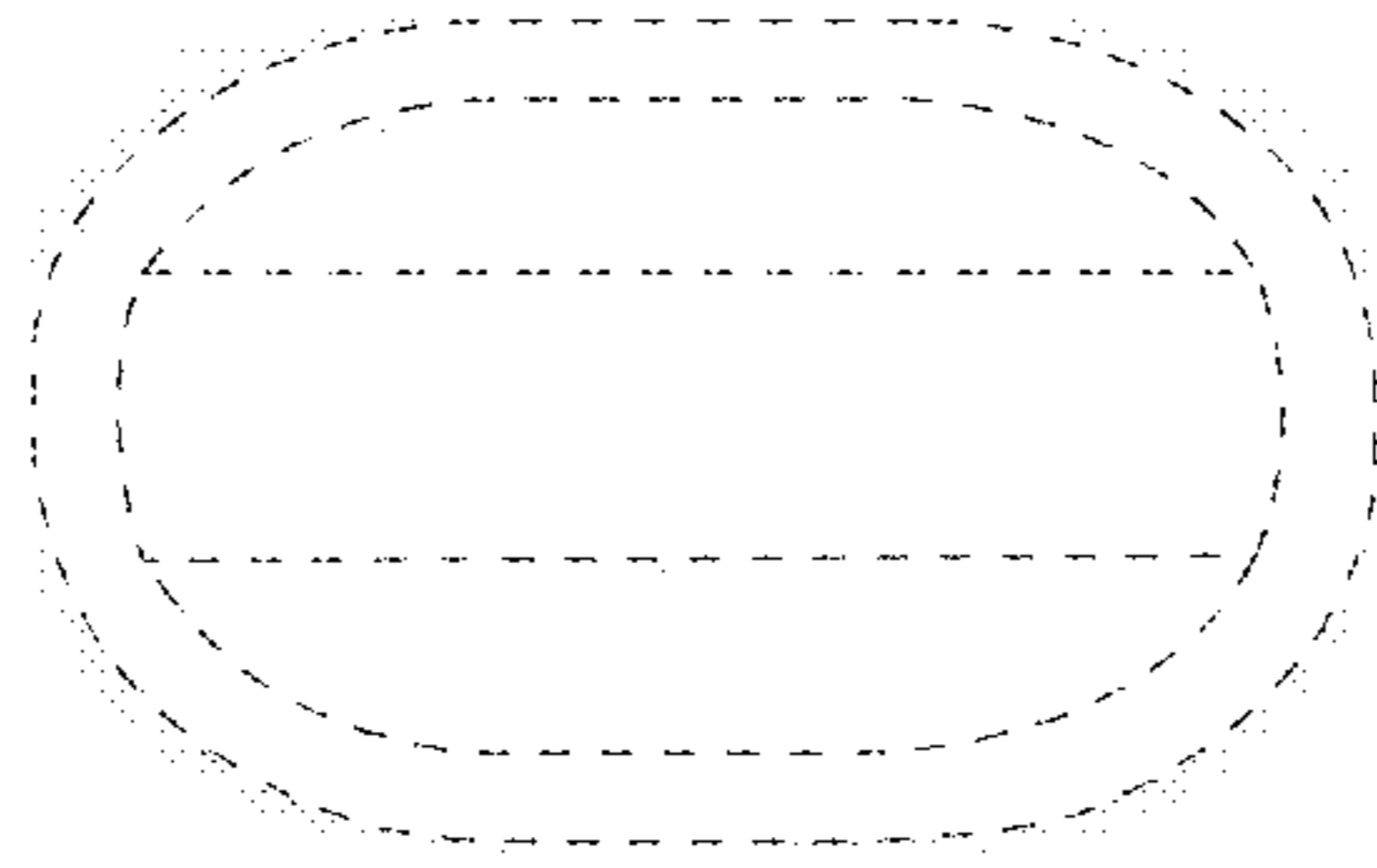


FIG. 6

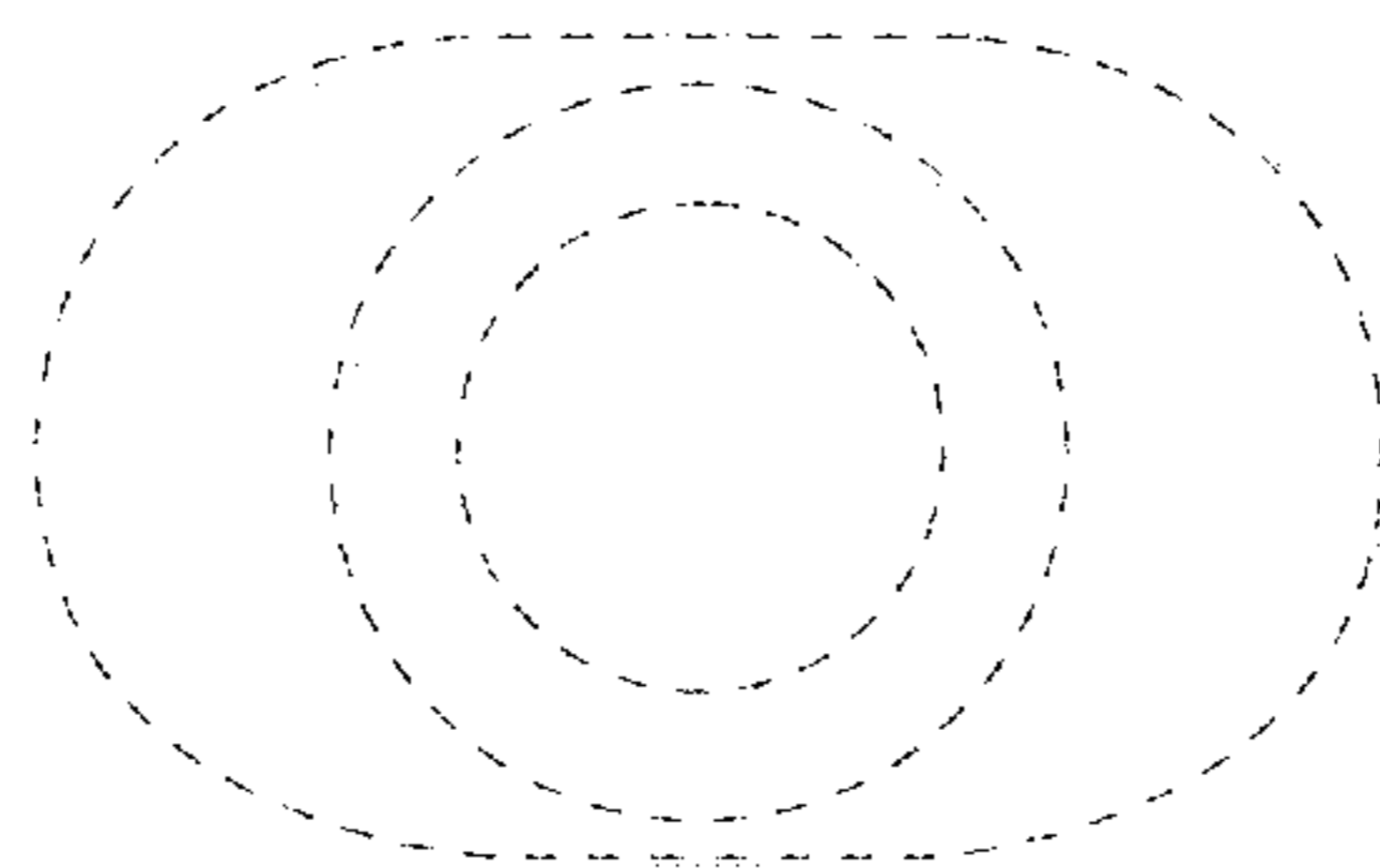


FIG. 7