



US00D804986S

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

(10) **Patent No.:** **US D804,986 S**  
(45) **Date of Patent:** **\*\* Dec. 12, 2017**

(54) **SLIDER**  
(71) Applicant: **IDEAL FASTENER (GUANGDONG) INDUSTRIES LTD.**, Guangdong (CN)  
(72) Inventors: **Franklin Chi Yen Hung**, Guangdong (CN); **Gollen Qiu**, Guangdong (CN); **William Qiu**, Guangdong (CN); **Ali Lv**, Guangdong (CN); **Andy Zeng**, Guangdong (CN); **Fukang Wu**, Guangdong (CN)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/589,176**  
(22) Filed: **Dec. 29, 2016**

(30) **Foreign Application Priority Data**  
Aug. 31, 2016 (CN) ..... 2016 3 0458572  
(51) **LOC (10) Cl.** ..... **15-07**  
(52) **U.S. Cl.**  
USPC ..... **D11/221**  
(58) **Field of Classification Search**  
USPC ..... D11/200-201, 221; 24/381-383,  
24/385-387, 414-431, 4, 412; D2/641;  
294/3.6  
CPC ..... A44B 19/00; A44B 19/02; A44B 19/04;  
A44B 19/10; A44B 19/24; A44B 19/26;  
A44B 19/30; A44B 19/06  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
2,666,970 A \* 1/1954 Grant ..... A44B 19/28  
24/416  
3,798,715 A \* 3/1974 Moertel ..... A44B 19/306  
24/423  
4,055,876 A \* 11/1977 Ackermann ..... A44B 19/26  
24/421

5,255,418 A \* 10/1993 Chen ..... A44B 19/308  
24/419  
5,544,394 A \* 8/1996 Yaguramaki ..... A44B 19/308  
24/424  
D390,811 S \* 2/1998 Yaguramaki ..... D11/221  
D397,959 S \* 9/1998 Terasaki ..... D11/221  
D398,560 S \* 9/1998 Oda ..... D11/221  
5,809,622 A \* 9/1998 Yaguramaki ..... A44B 19/308  
24/419  
5,956,819 A \* 9/1999 Terasaki ..... A44B 19/26  
24/419  
D512,340 S \* 12/2005 Keyaki ..... D11/221  
(Continued)

**OTHER PUBLICATIONS**

Slider for Conceal (invisible zipper) size 5, YKKfasting.com, [online], [site visited Sep. 19, 2017]. <URL: [http://www.ykkfastening.com/products/zipper/slider/zipper\\_type/coil\\_zipper/5cc/5cc\\_da5.html](http://www.ykkfastening.com/products/zipper/slider/zipper_type/coil_zipper/5cc/5cc_da5.html)>.\*  
(Continued)

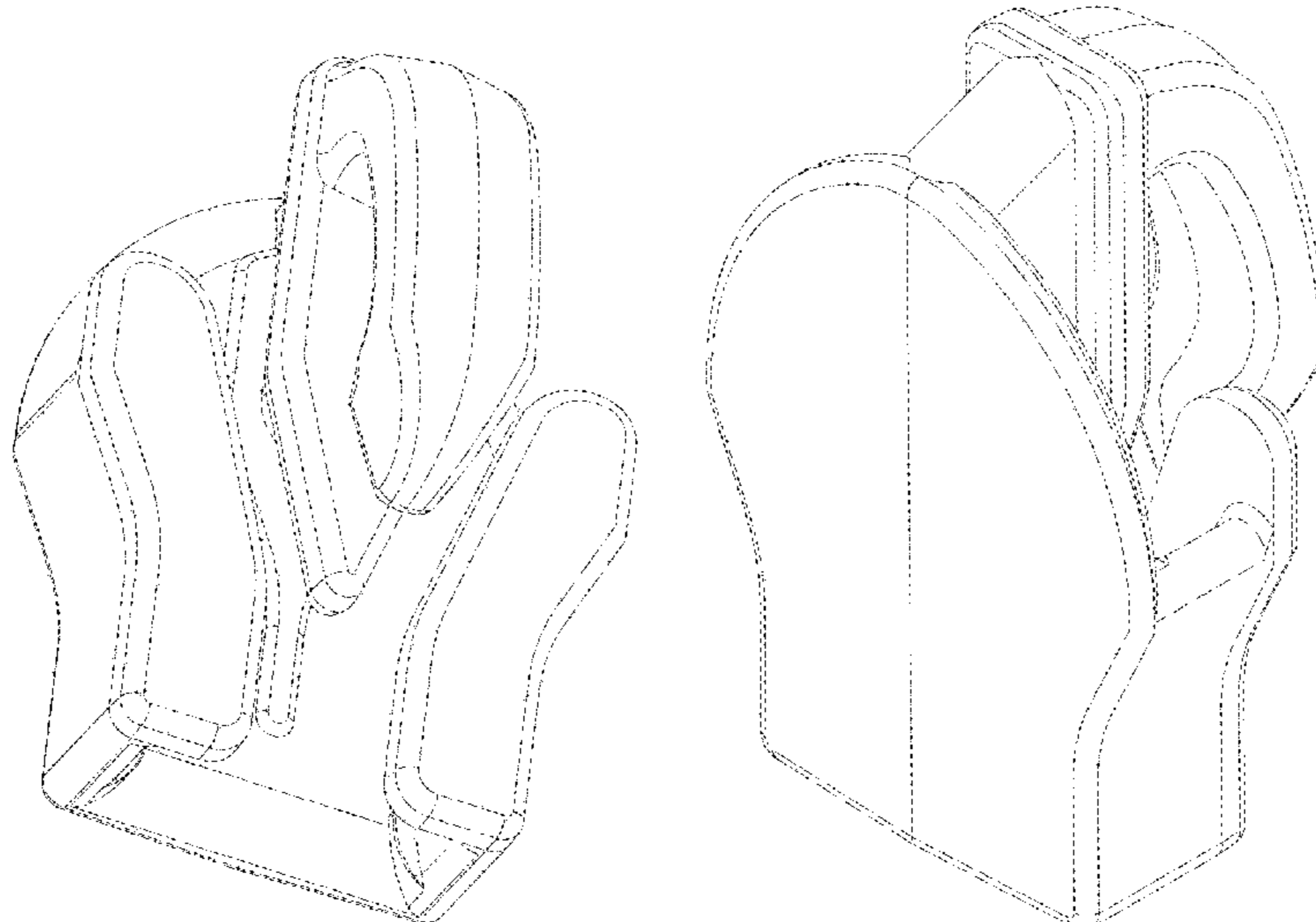
*Primary Examiner* — T. Chase Nelson  
*Assistant Examiner* — Jonathan J Han  
(74) *Attorney, Agent, or Firm* — Prakash Nama; Global IP Services, PLLC

(57) **CLAIM**  
The ornamental design for a slider, as shown.

**DESCRIPTION**

FIG. 1 is a front elevational view of a slider showing our new design;  
FIG. 2 is a rear elevational view thereof;  
FIG. 3 is a left side view thereof;  
FIG. 4 is a right side view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a bottom plan view thereof;  
FIG. 7 is a perspective view thereof;  
FIG. 8 is a second perspective view thereof; and,  
FIG. 9 is a third perspective view thereof.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D527,311 S \* 8/2006 Yamagishi ..... D11/221  
 D556,087 S \* 11/2007 Lin ..... D11/221  
 D612,292 S \* 3/2010 Miyazaki ..... D11/221  
 D643,336 S \* 8/2011 Di Girolami ..... D11/221  
 D643,779 S \* 8/2011 Di Girolami ..... D11/221  
 D651,939 S \* 1/2012 Keyaki ..... D11/221  
 D705,124 S \* 5/2014 Wang ..... D11/221  
 D706,676 S \* 6/2014 Ohgaku ..... D11/221  
 D709,405 S \* 7/2014 Keyaki ..... D11/221  
 D721,616 S \* 1/2015 Yamashita ..... D11/221  
 9,125,459 B1 \* 9/2015 Lin ..... A44B 19/26  
 9,226,550 B1 \* 1/2016 Lin ..... A44B 19/262  
 2002/0133917 A1 \* 9/2002 Chu ..... A44B 19/262  
 2006/0075611 A1 \* 4/2006 Yamagishi ..... A44B 19/306  
 2009/0106952 A1 \* 4/2009 Lin ..... A44B 19/308  
 2009/0113676 A1 \* 5/2009 Chung ..... A44B 19/06  
 24/406

2009/0313793 A1 \* 12/2009 Lin ..... A44B 19/26  
 24/429  
 2012/0186049 A1 \* 7/2012 Wang ..... A44B 19/26  
 24/430  
 2014/0338158 A1 \* 11/2014 Lin ..... A44B 19/26  
 24/431  
 2015/0189954 A1 \* 7/2015 Yoneoka ..... A44B 19/26  
 24/428  
 2015/0223572 A1 \* 8/2015 Wang ..... A44B 19/26  
 24/428  
 2017/0035154 A1 \* 2/2017 Lin ..... A44B 19/308

OTHER PUBLICATIONS

Invisible Zipper Slider Rs. 4 / Piece, IndiaMart.com, [online], [site visited Sep. 19, 2017]. <URL: <https://www.indiamart.com/iafastners-newdelhi/zipper-sliders.html>>.\*  
 5# Invisible Zipper Slider, HelianMold.com, [online], [site visited Sep. 19, 2017]. <URL: <http://www.helianmold.com/product/invisible-zipper-slider-3-4-5>>.\*

\* cited by examiner

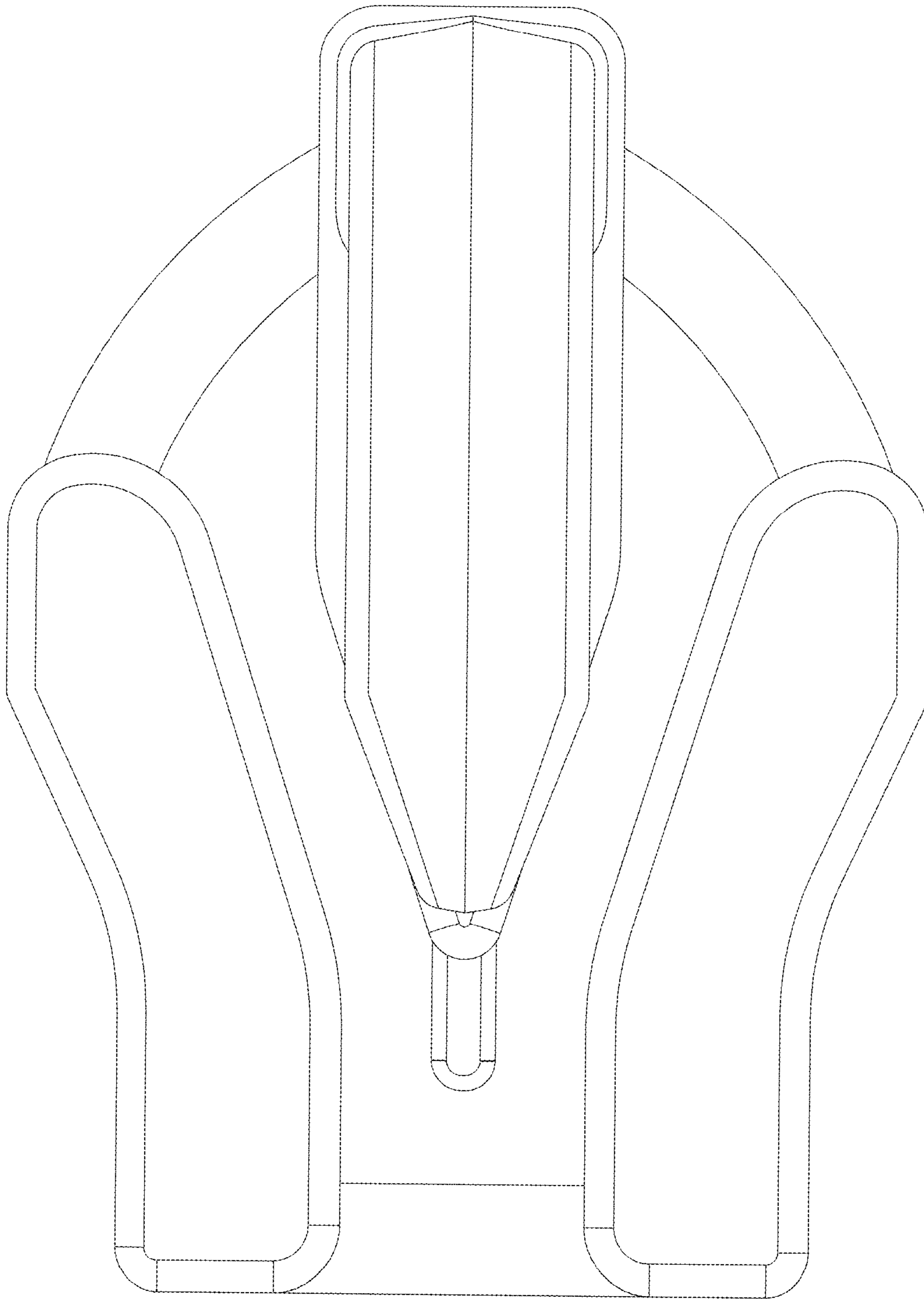


FIG. 1

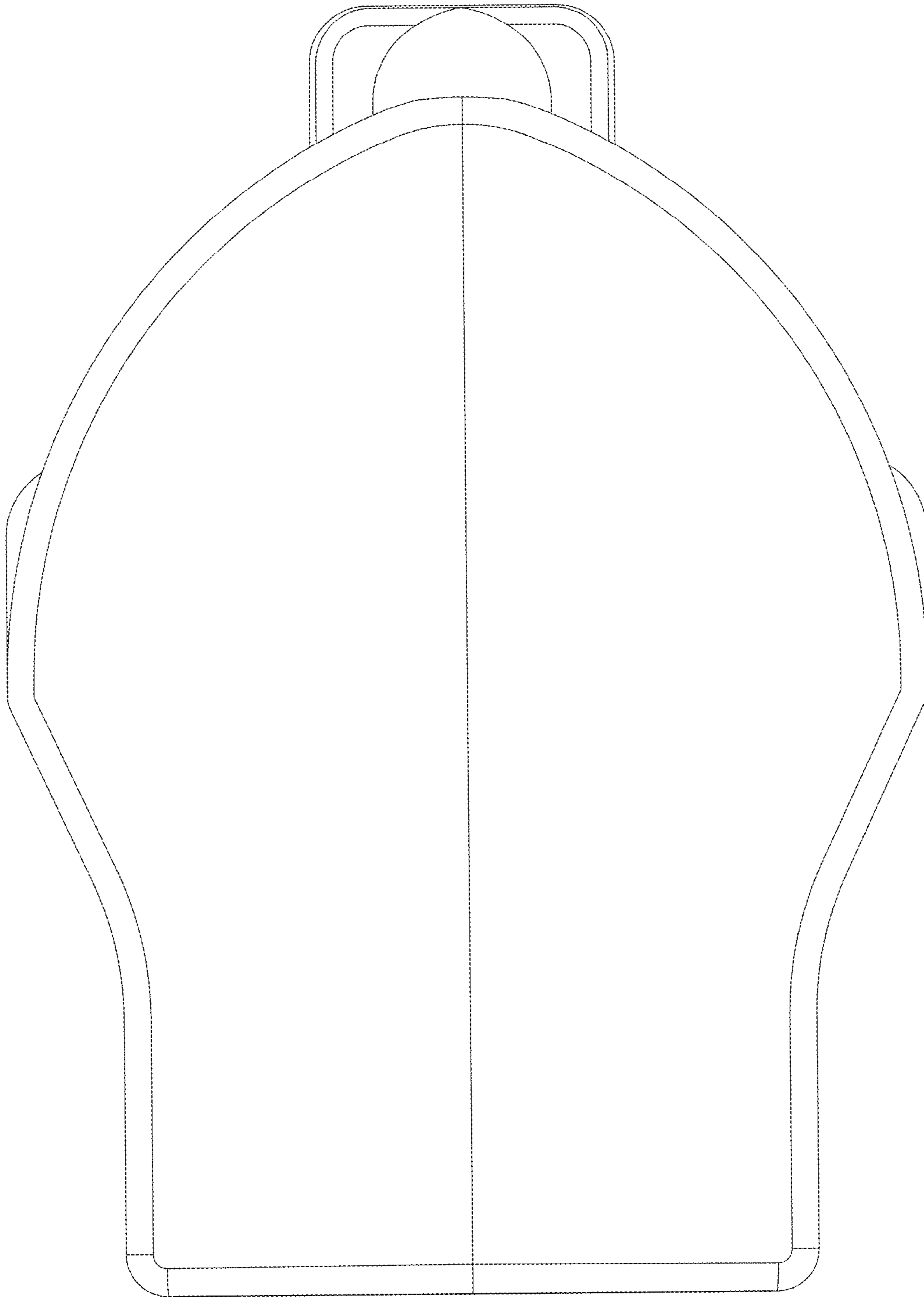


FIG. 2

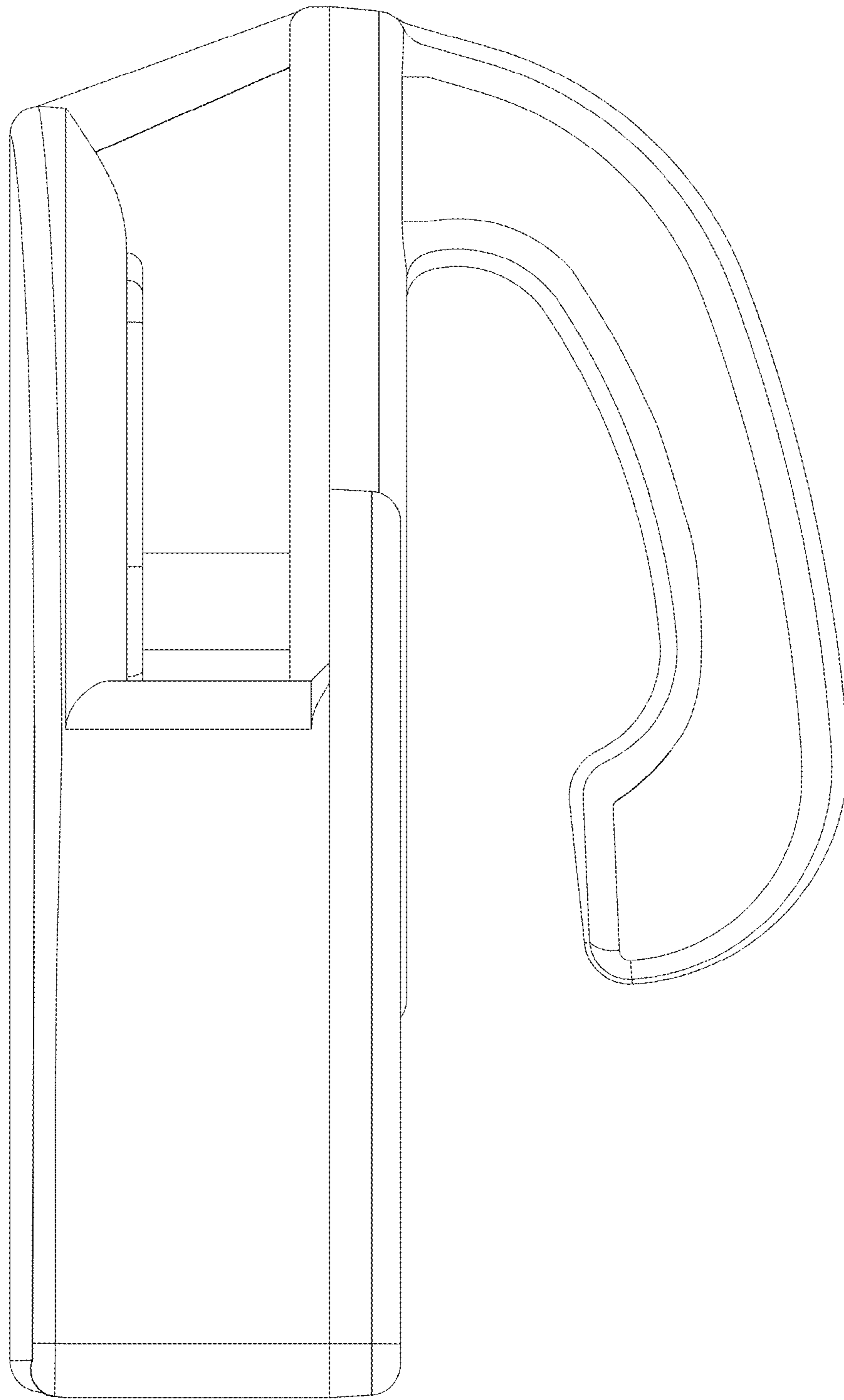


FIG. 3

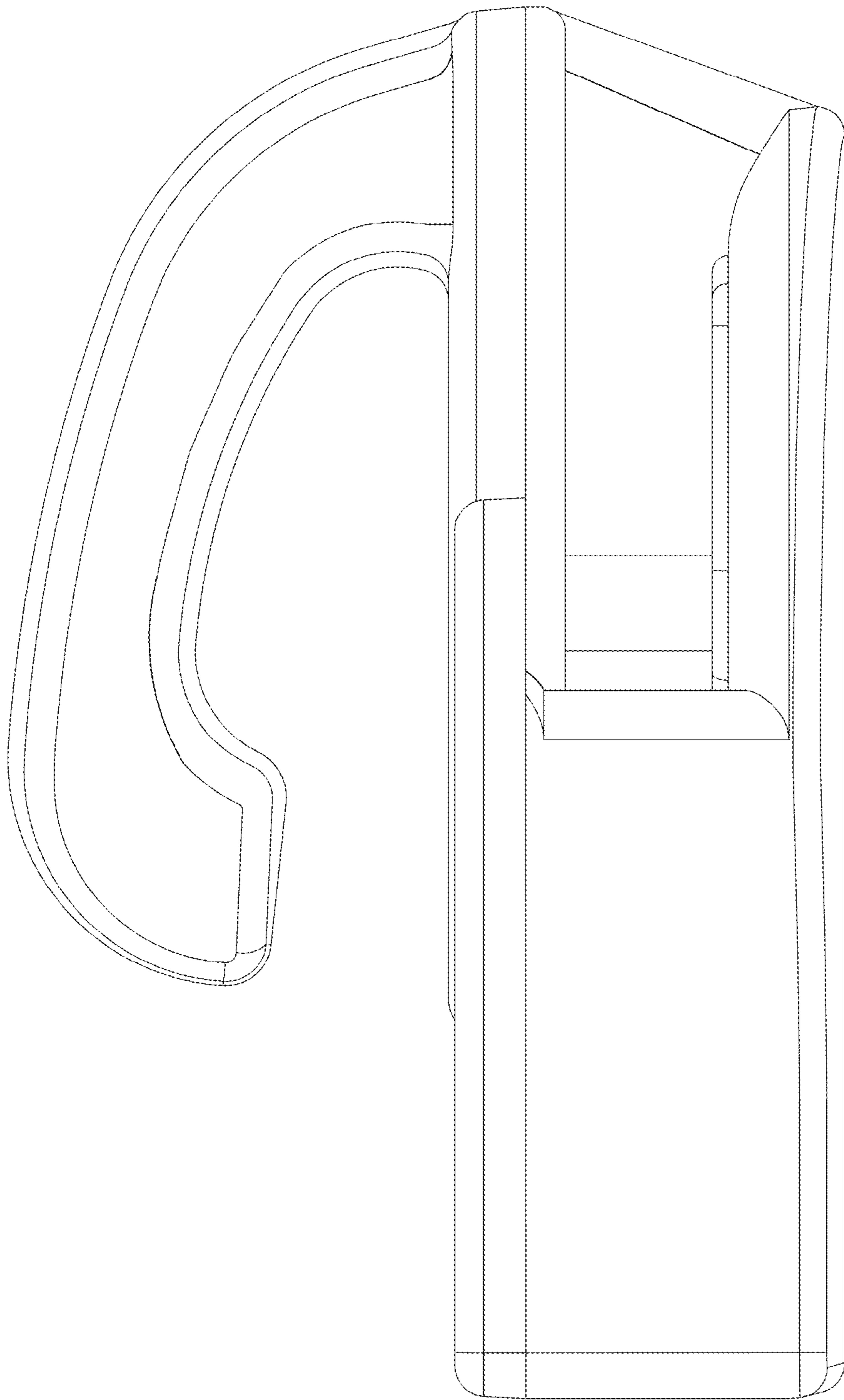


FIG. 4

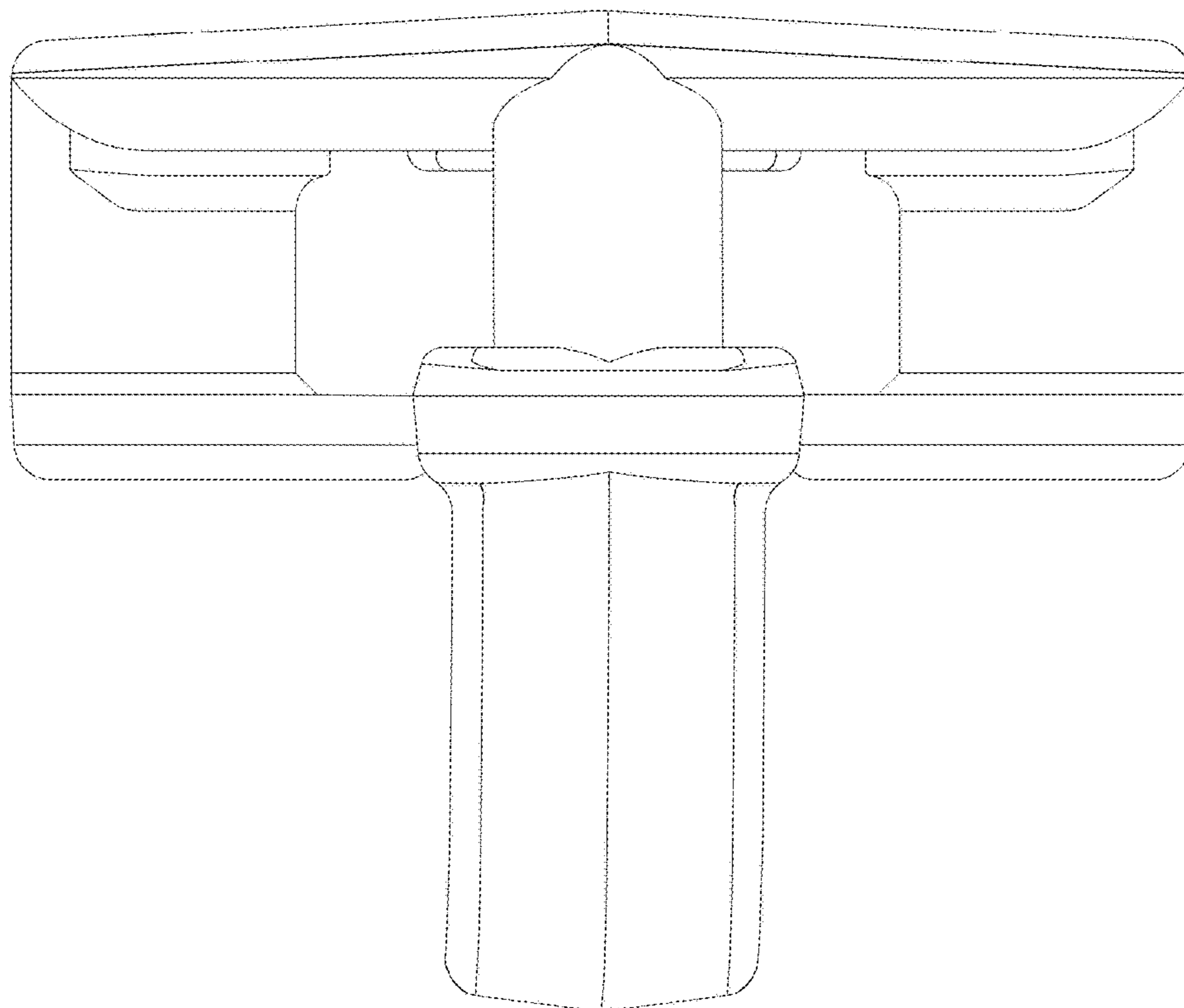


FIG. 5

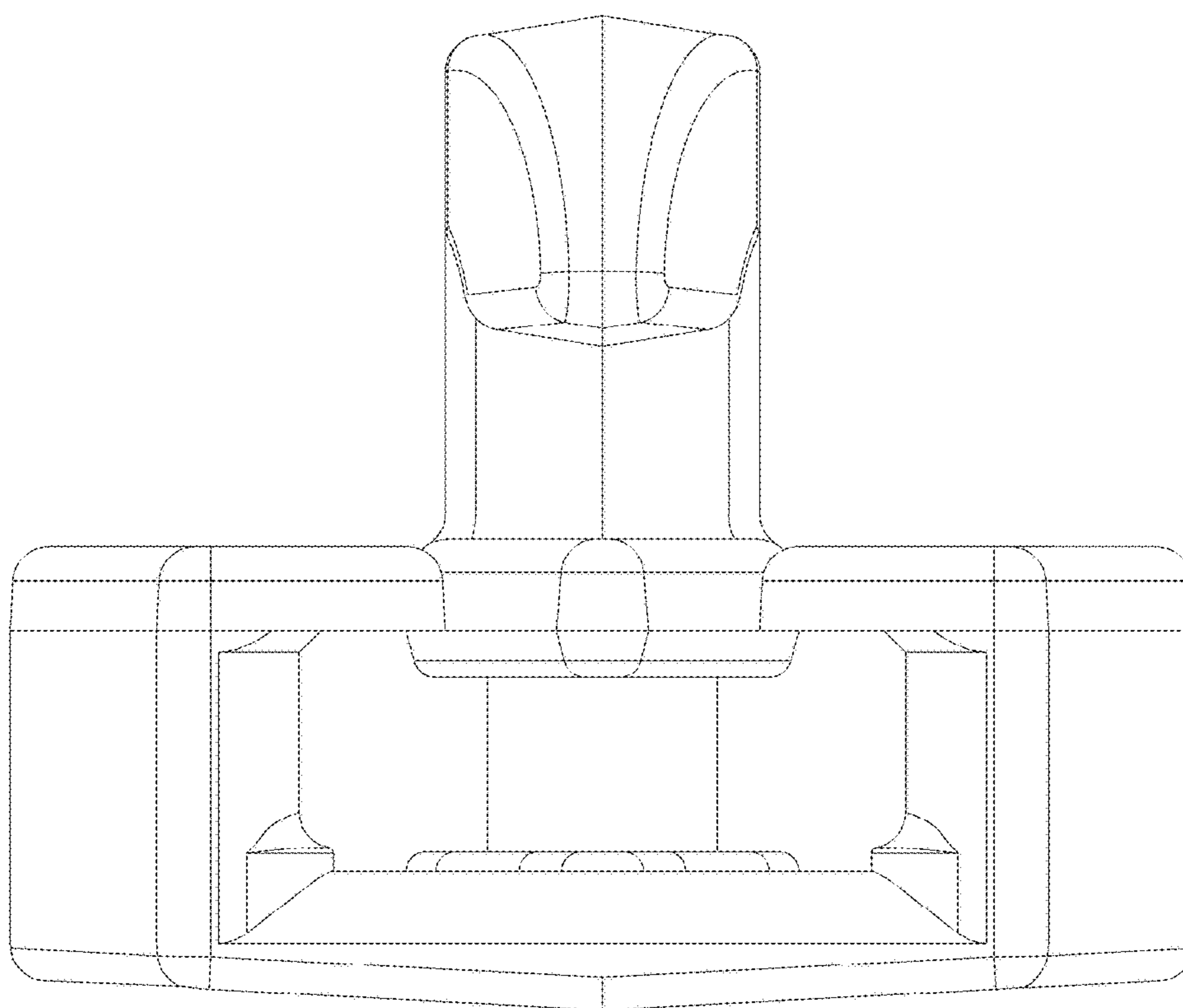


FIG. 6

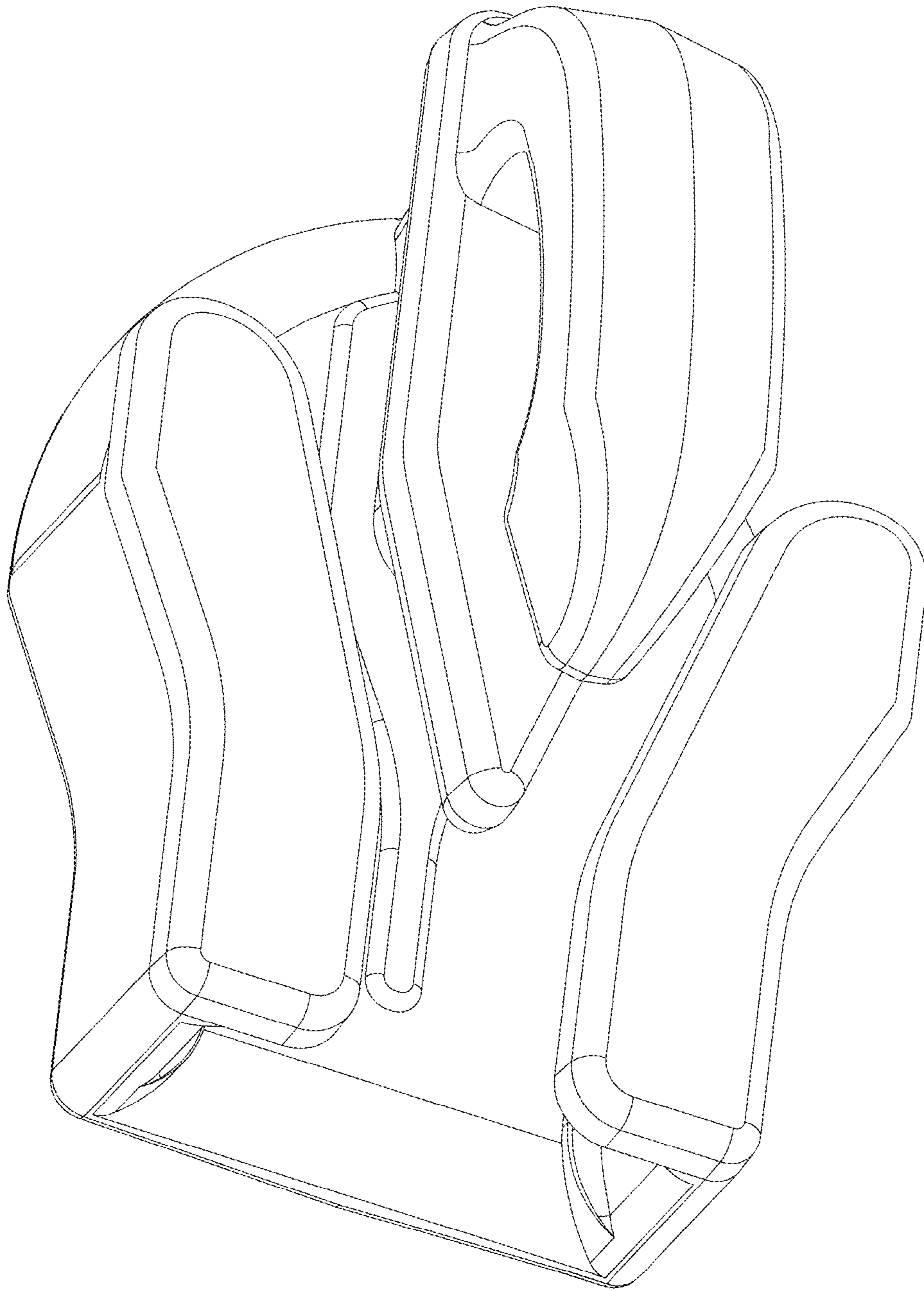


FIG. 7



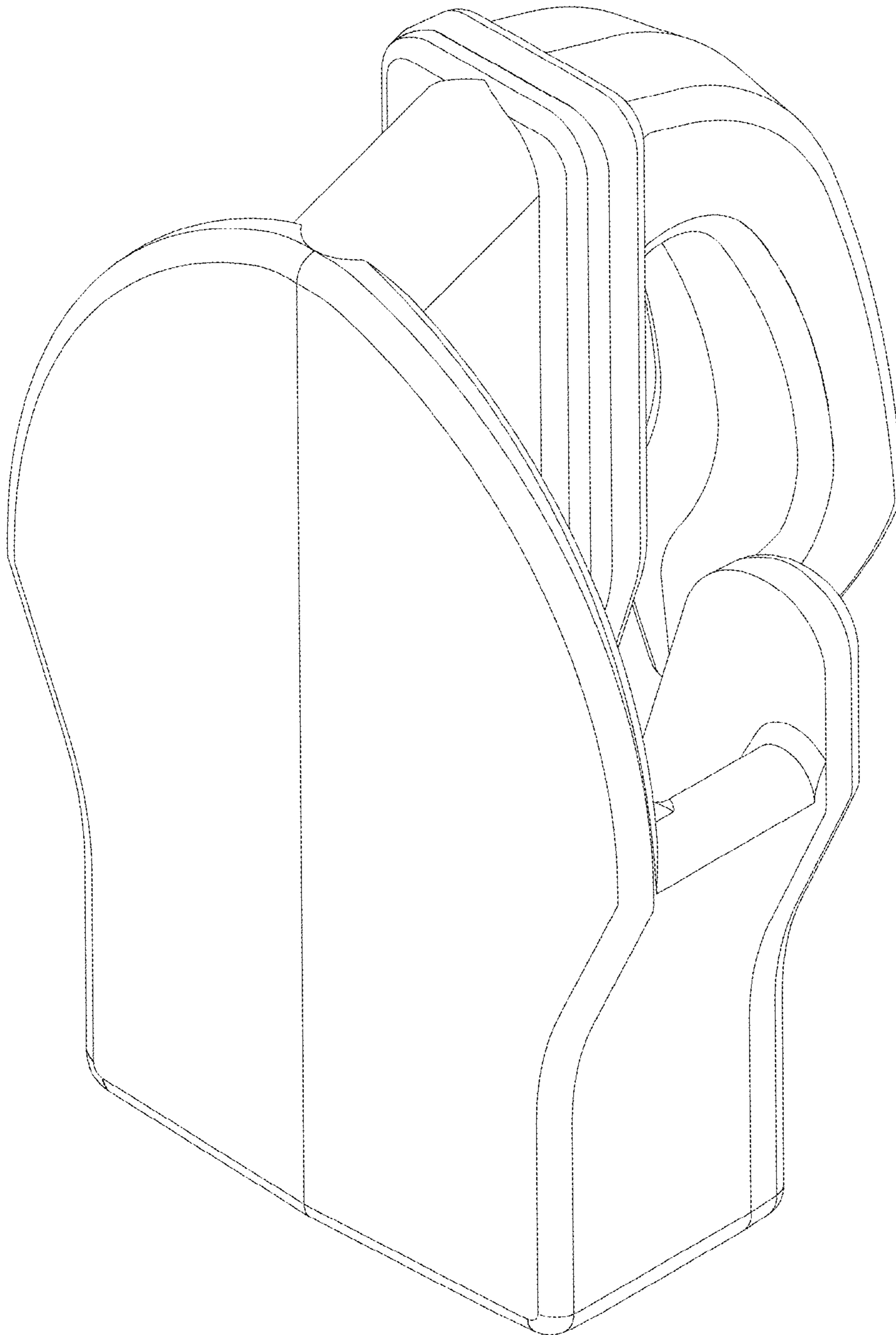


FIG. 8

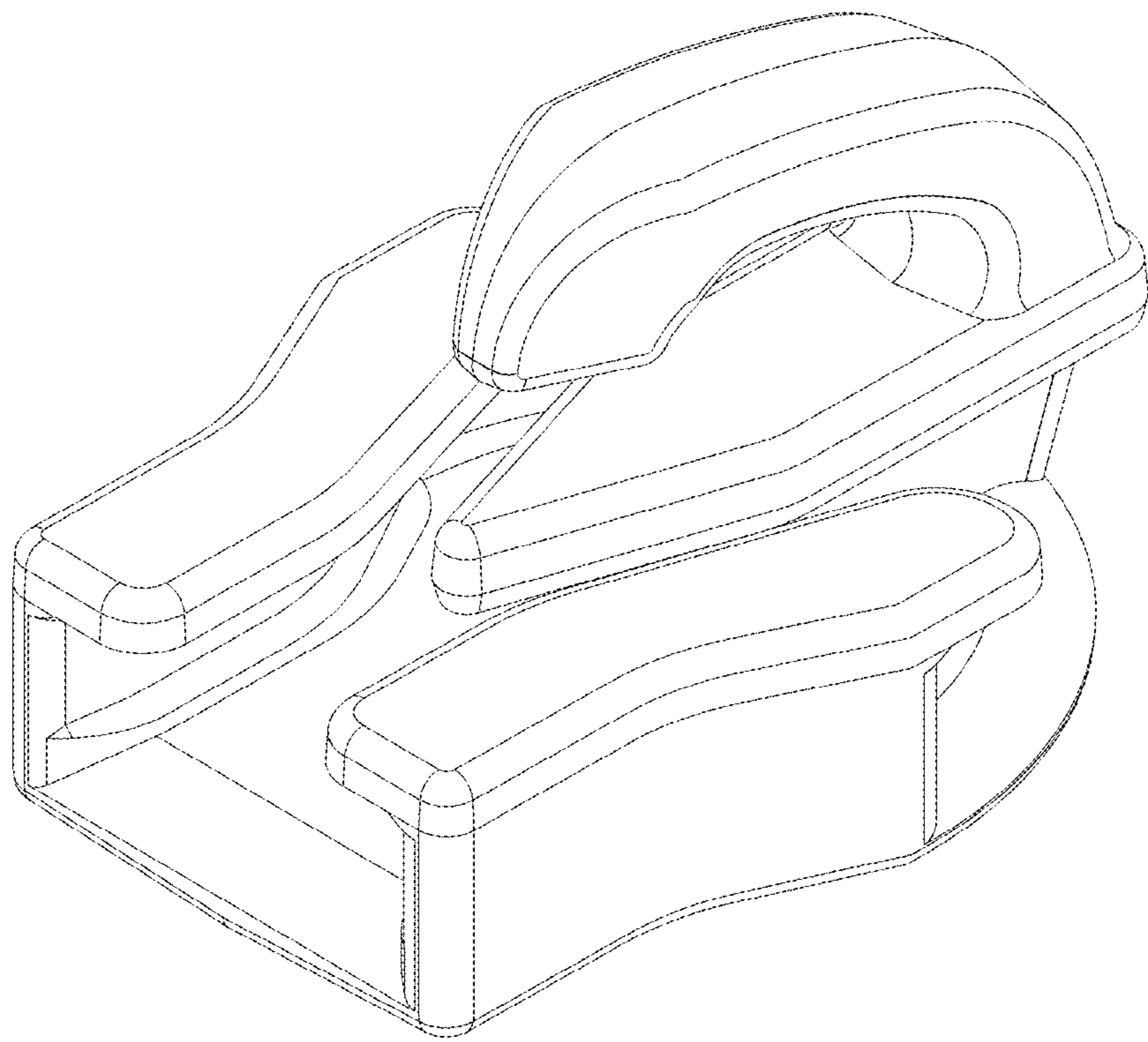


FIG. 9