

US00D943766S

(12) **United States Design Patent** (10) **Patent No.:** **US D943,766 S**
Bulloch et al. (45) **Date of Patent:** **** Feb. 15, 2022**

(54) **ELECTROPHORESIS SLAB GEL SAMPLE LOADING GUIDE**

(71) Applicant: **LIFE TECHNOLOGIES CORPORATION**, Carlsbad, CA (US)

(72) Inventors: **Kyle Bulloch**, San Diego, CA (US);
Thomas Diller, San Diego, CA (US);
Xin Mathers, Poway, CA (US)

(73) Assignee: **Life Technologies Corporation**, Carlsbad, CA (US)

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

(21) Appl. No.: **29/688,245**

(22) Filed: **Apr. 19, 2019**

Related U.S. Application Data

(62) Division of application No. 29/545,624, filed on Nov. 13, 2015, now Pat. No. Des. 859,688.

(51) **LOC (13) Cl.** **24-99**

(52) **U.S. Cl.**
USPC **D24/233**

(58) **Field of Classification Search**
USPC D24/216, 222, 223, 224, 225, 226, 227,
D24/231, 232, 233; D10/81

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,888,759 A 6/1975 Elson et al.
4,294,684 A 10/1981 Serwer

(Continued)

FOREIGN PATENT DOCUMENTS

WO WO-9524640 A1 9/1995
WO WO-9954721 A1 10/1999
WO WO-2007032951 A2 3/2007

OTHER PUBLICATIONS

Caprette, D. "Characterization of red cell membrane proteins by SDS-Page- Preparing SDS Gels," <http://www.ruf.rice.edu/~bioslabs/studies/sds-page/gellab2a.html>, Updated May 24, 2005, downloaded Jan. 2, 2017, pp. 1-5.

Primary Examiner — Samantha Q Lawrence
(74) *Attorney, Agent, or Firm* — Priya D. Subramony

(57) **CLAIM**

The ornamental design for an electrophoresis slab gel sample loading guide, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of an embodiment of an electrophoresis slab gel sample loading guide showing our new design.

FIG. 2 is a back perspective thereof.

FIG. 3 is a front view thereof.

FIG. 4 is a back view thereof.

FIG. 5 is a right side view thereof.

FIG. 6 is a left side view thereof.

FIG. 7 is a top view thereof.

FIG. 8 is a bottom view thereof.

FIG. 9 is a front perspective view of an embodiment of an electrophoresis slab gel sample loading guide showing our new design.

FIG. 10 is a back perspective thereof.

FIG. 11 is a front view thereof.

FIG. 12 is a back view thereof.

FIG. 13 is a right side view thereof.

FIG. 14 is a left side view thereof.

FIG. 15 is a top view thereof.

FIG. 16 is a bottom view thereof.

FIG. 17 is a front perspective view of an embodiment of an electrophoresis slab gel sample loading guide showing our new design.

FIG. 18 is a back perspective thereof.

FIG. 19 is a front view thereof.

FIG. 20 is a back view thereof.

FIG. 21 is a right side view thereof.

FIG. 22 is a left side view thereof.

(Continued)

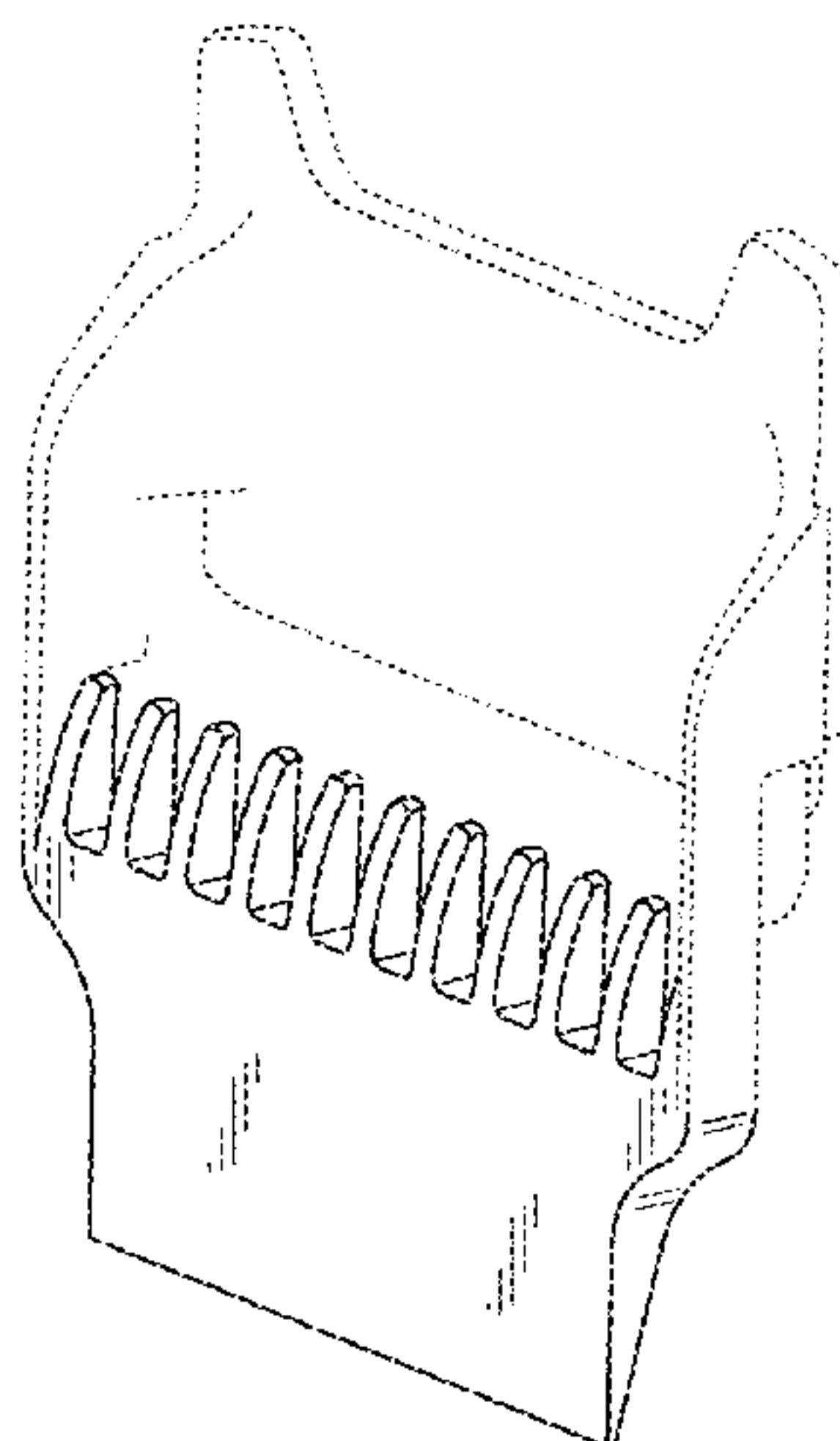


FIG. 23 is a top view thereof; and, FIG. 24 is a bottom view thereof. The broken lines shown in FIGS. 1-24 illustrate portions of the electrophoresis slab gel sample loading guide that form no part of the claimed design. The dash-dot broken lines shown in FIGS. 2, 4, 10, 12, 18, and 20 illustrate boundary lines that form no part of the claimed design.

1 Claim, 9 Drawing Sheets

(58) **Field of Classification Search**

CPC B01D 57/02; B29C 51/30; B29C 51/36; C07K 1/26; G01N 27/447; G01N 27/44704; G01N 27/44708; G01N 27/44713; G01N 27/44721; G01N 27/44739; G01N 27/44743; G01N 27/44747; G01N 27/44756; G01N 27/44769; G01N 27/44773; G01N 27/44778; G01N 27/44782; G01N 27/44786; G01N 27/44795; G01N 27/453
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D269,123	S	5/1983	Hoefler et al.
4,560,459	A	12/1985	Hoefler
4,574,040	A	3/1986	Delony et al.
4,693,804	A	9/1987	Serwer
4,715,942	A	12/1987	Tezuka et al.
4,772,373	A	9/1988	Ebata et al.
4,773,984	A	9/1988	Flesher et al.
4,795,541	A	1/1989	Hurd et al.
D303,007	S	8/1989	Flesher
4,957,613	A	9/1990	Schuetz et al.
4,975,174	A	12/1990	Bambeck et al.
5,073,246	A	12/1991	Chu et al.
5,116,483	A	5/1992	Lander
5,192,408	A	3/1993	Scott
5,228,971	A	7/1993	Brumley, Jr. et al.
5,238,651	A	8/1993	Chuba
5,284,565	A	2/1994	Chu et al.
5,292,420	A	3/1994	Nakanura
5,407,552	A	4/1995	Lebacqz et al.
D367,713	S	3/1996	La Motte
5,618,399	A	4/1997	Gautsch et al.
5,626,735	A	5/1997	Chu et al.
5,632,877	A	5/1997	Van et al.
5,685,967	A	11/1997	Manis et al.
5,753,095	A	5/1998	Alpenfels et al.
5,773,645	A	6/1998	Hochstrasser
5,827,418	A	10/1998	Haven et al.
5,843,295	A	12/1998	Steiner et al.
5,885,431	A	3/1999	Renfrew et al.
5,888,369	A	3/1999	Tippins et al.

5,972,188	A	10/1999	Rice et al.
5,989,403	A	11/1999	Provonchee et al.
6,001,233	A	12/1999	Levy et al.
6,027,628	A	2/2000	Yamamura et al.
6,110,340	A	8/2000	Lau et al.
6,110,344	A	8/2000	Renfrew et al.
6,139,709	A	10/2000	Scott et al.
D443,068	S	5/2001	Manusu et al.
6,231,741	B1	5/2001	Tuurenhout et al.
6,379,519	B1	4/2002	Sevigny et al.
6,436,262	B1	8/2002	Perez et al.
6,521,111	B1	2/2003	Amshey et al.
D505,729	S	5/2005	Lee et al.
6,929,732	B2	8/2005	Chen
6,932,895	B2	8/2005	Anderson et al.
6,936,150	B2	8/2005	Rooney et al.
6,942,775	B1	9/2005	Fox et al.
D510,770	S	10/2005	Emerson
D511,386	S	11/2005	Emerson
6,969,455	B1	11/2005	Helfer et al.
D524,449	S	7/2006	Emerson et al.
7,135,101	B2	11/2006	Atchison et al.
7,276,143	B2	10/2007	Chen et al.
7,544,279	B2	6/2009	Chen et al.
7,601,251	B2	10/2009	Rooney et al.
7,749,367	B2	7/2010	Zhou et al.
D654,597	S	2/2012	Hiramura
8,361,294	B2	1/2013	Wang et al.
8,398,838	B2	3/2013	Chen et al.
8,449,745	B2	5/2013	Wang et al.
8,480,874	B2	7/2013	Henry et al.
D719,277	S	12/2014	Miller et al.
D733,922	S	7/2015	Sjolander
9,234,874	B2	1/2016	Panattoni et al.
D757,958	S	5/2016	Murray et al.
9,383,335	B2	7/2016	Bjorkesten et al.
9,400,260	B2	7/2016	Suh et al.
D792,603	S	7/2017	Bulloch et al.
9,714,918	B2	7/2017	Updyke et al.
D794,823	S	8/2017	Nelson et al.
D795,449	S	8/2017	Miller et al.
D806,894	S	1/2018	Nelson et al.
D816,865	S *	5/2018	Bulloch D24/233
10,101,296	B2	10/2018	Strong et al.
D849,963	S *	5/2019	Bulloch D24/233
D851,779	S *	6/2019	Bulloch D24/233
D856,528	S *	8/2019	Bulloch D24/233
D859,688	S *	9/2019	Bulloch D24/233
2002/0079222	A1	6/2002	Sevigny et al.
2006/0163067	A1	7/2006	Sevigny et al.
2007/0205108	A1	9/2007	Jean et al.
2007/0284250	A1	12/2007	Magnant et al.
2011/0042213	A1	2/2011	Updyke et al.
2011/0042217	A1	2/2011	Updyke et al.
2014/0045250	A1	2/2014	Kreifels et al.
2016/0041123	A1	2/2016	Guadagno et al.
2016/0084797	A1	3/2016	Goh et al.
2016/0258903	A1	9/2016	Ran et al.
2017/0153204	A1	6/2017	Bulloch et al.

* cited by examiner

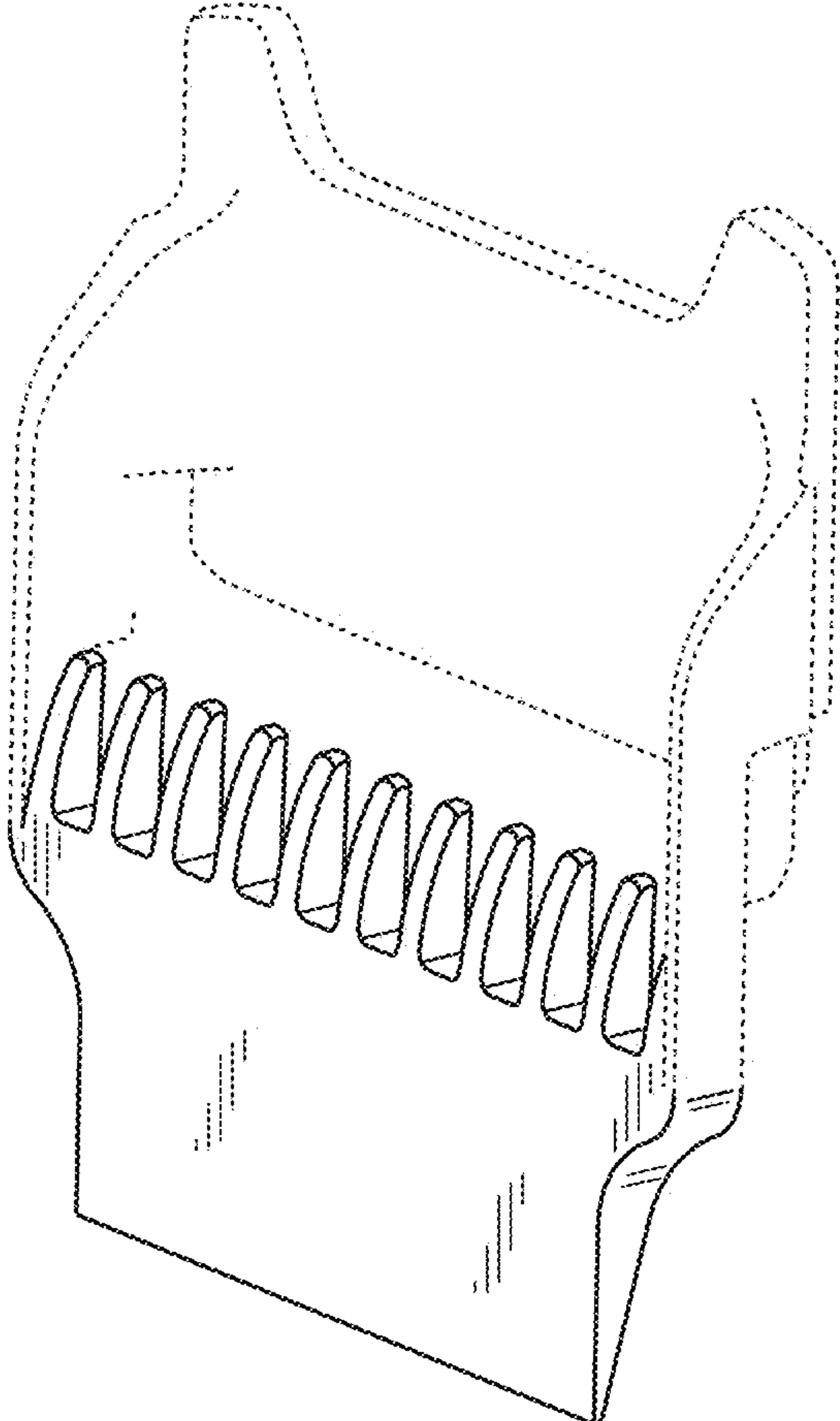


FIG. 1

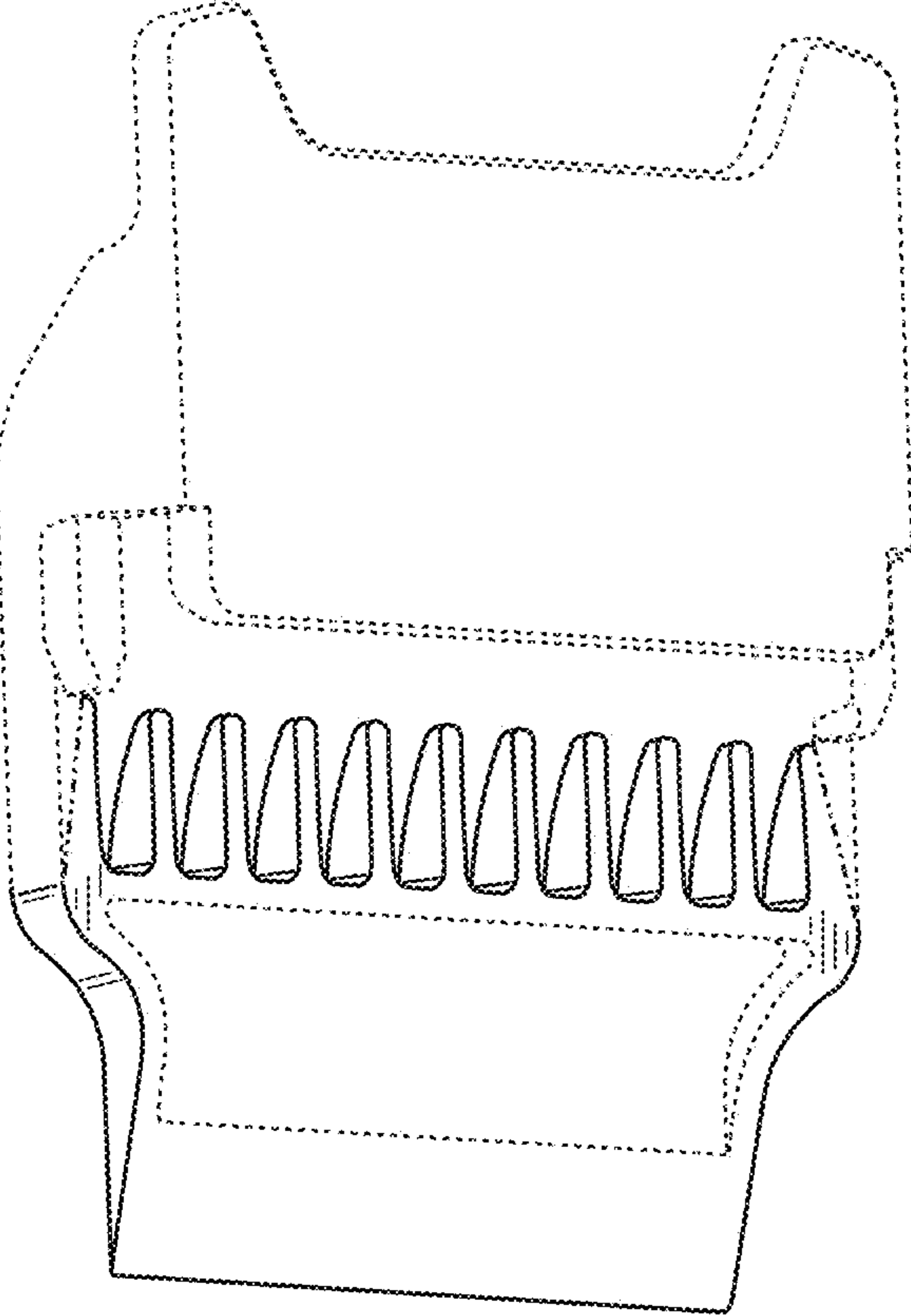


FIG. 2

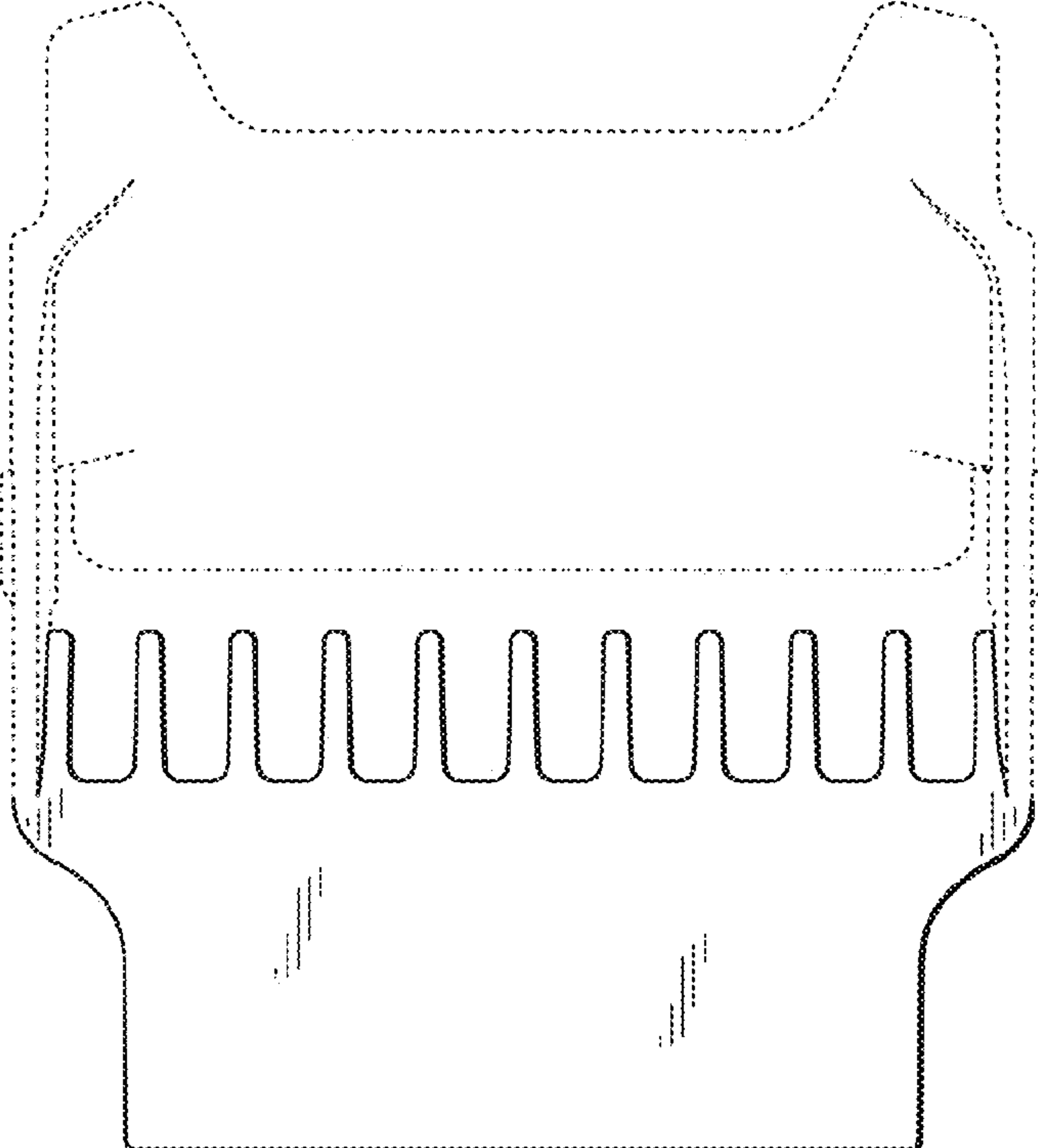


FIG. 3

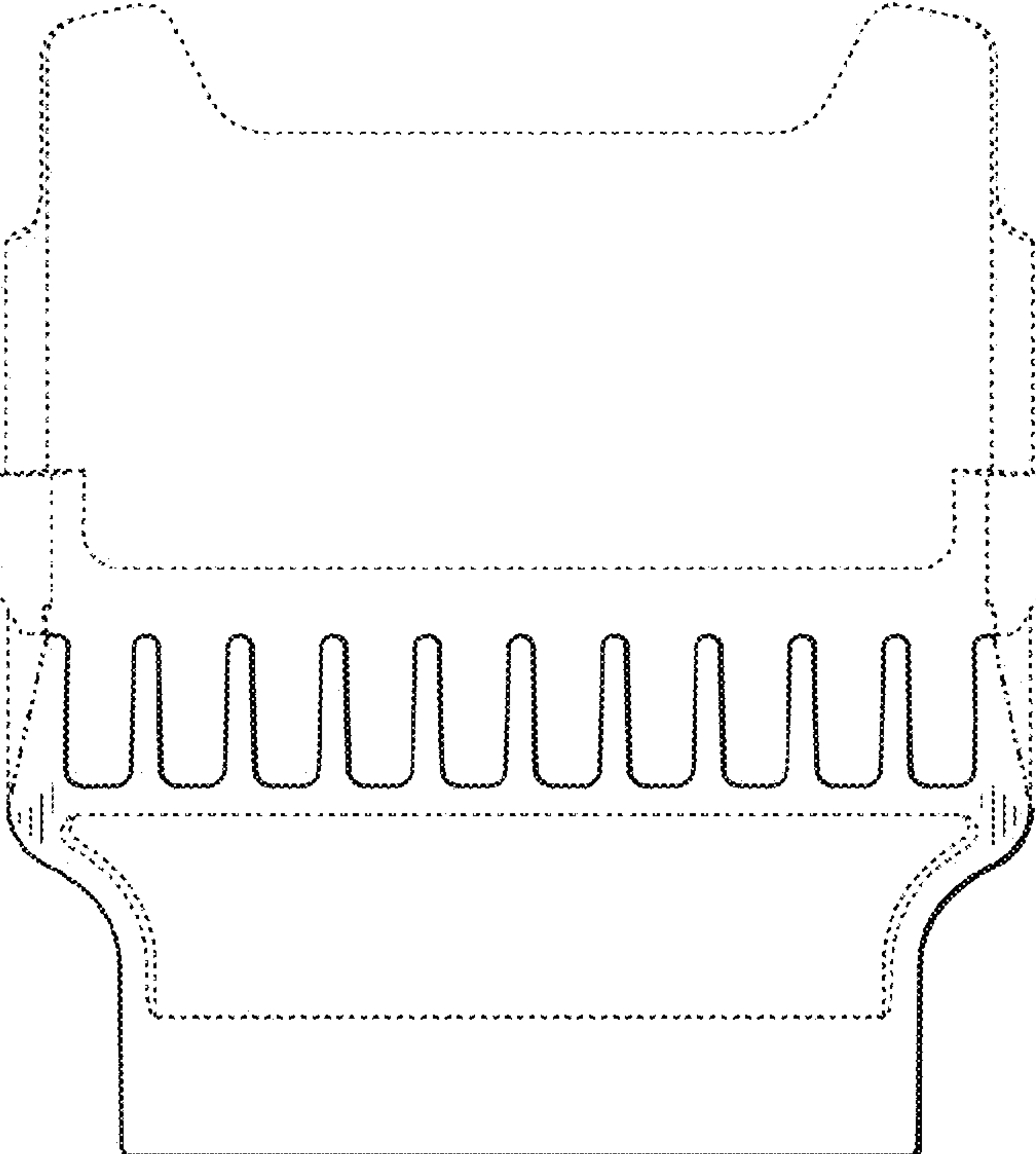


FIG. 4

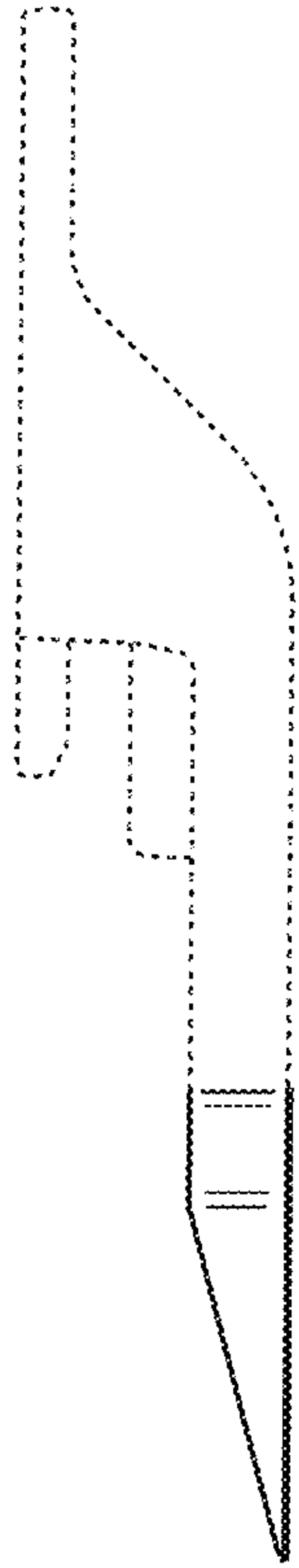


FIG. 5

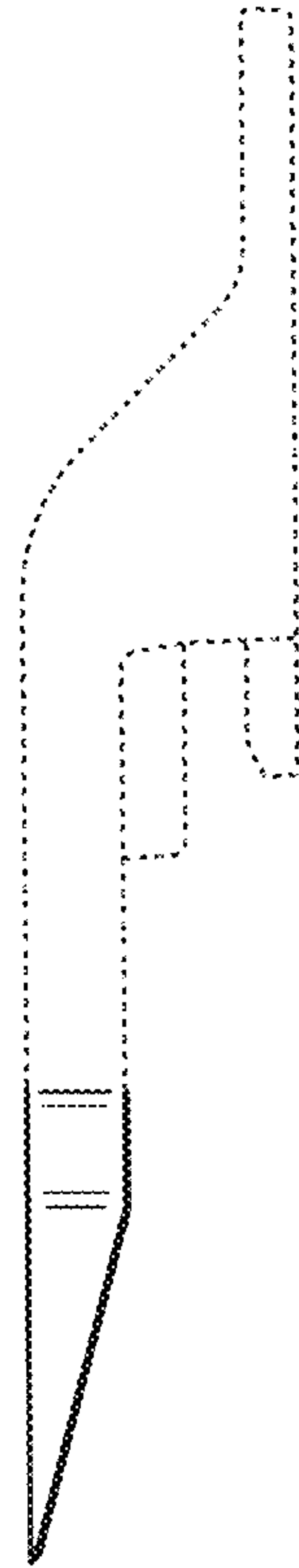


FIG. 6

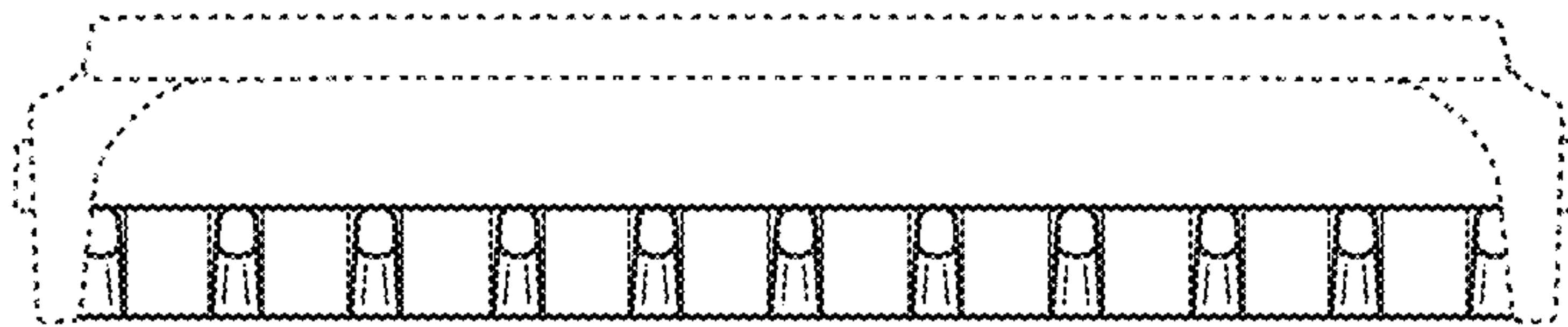


FIG. 7

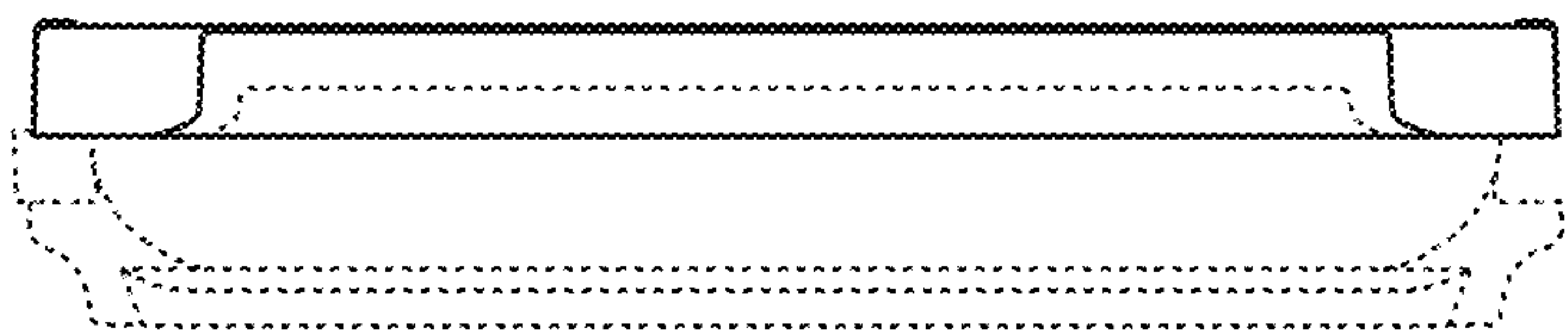


FIG. 8

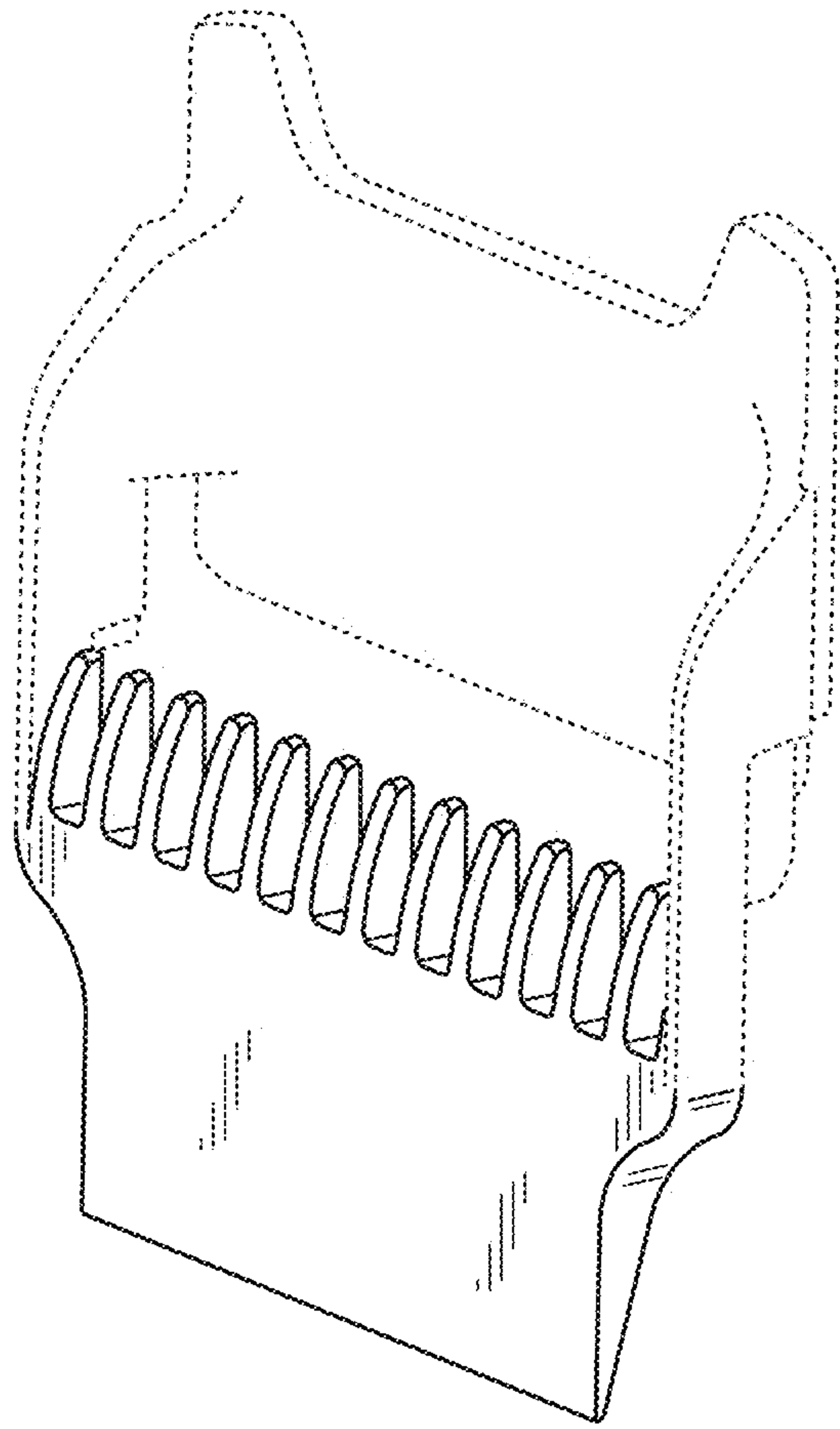


FIG. 9

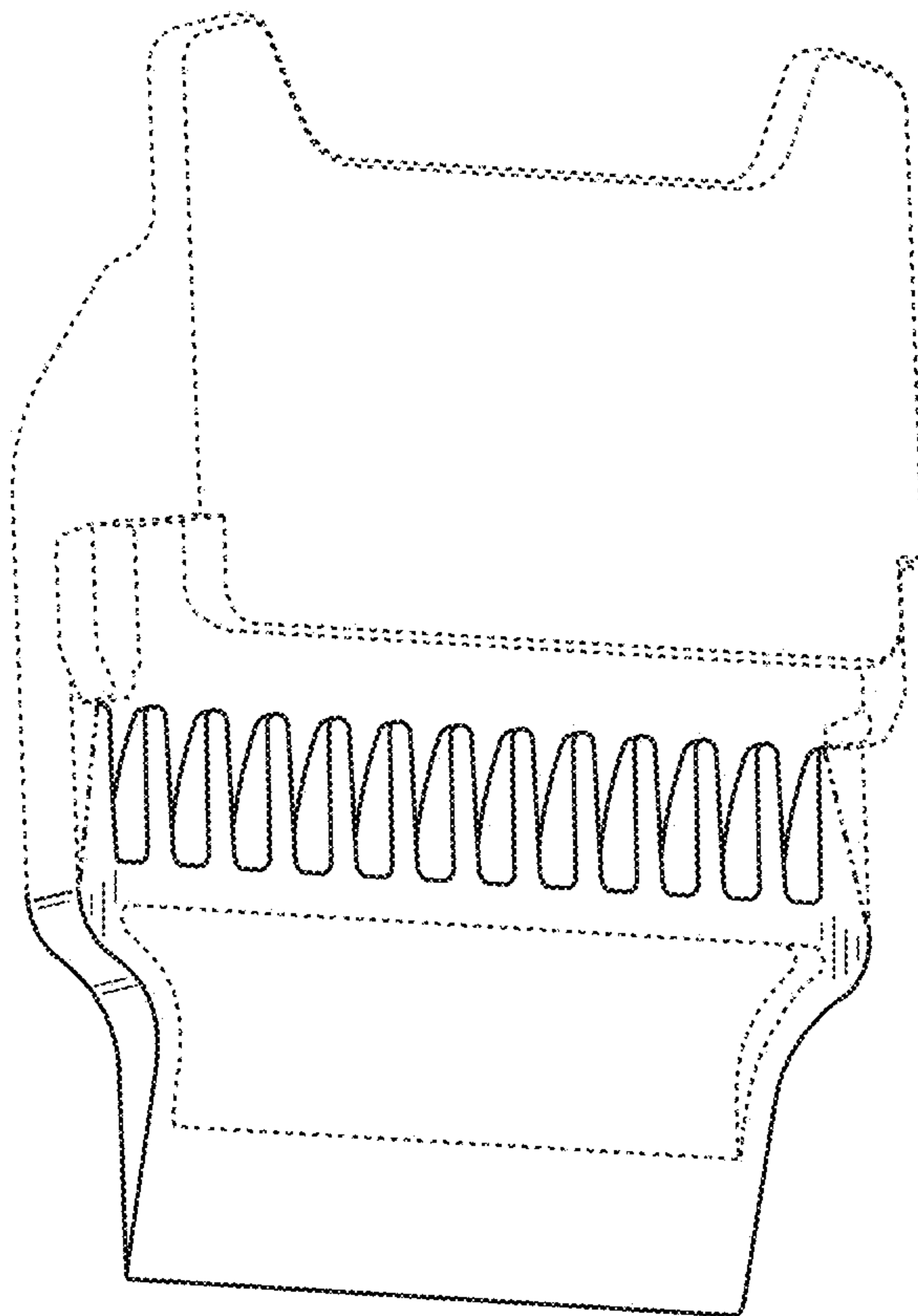


FIG. 10

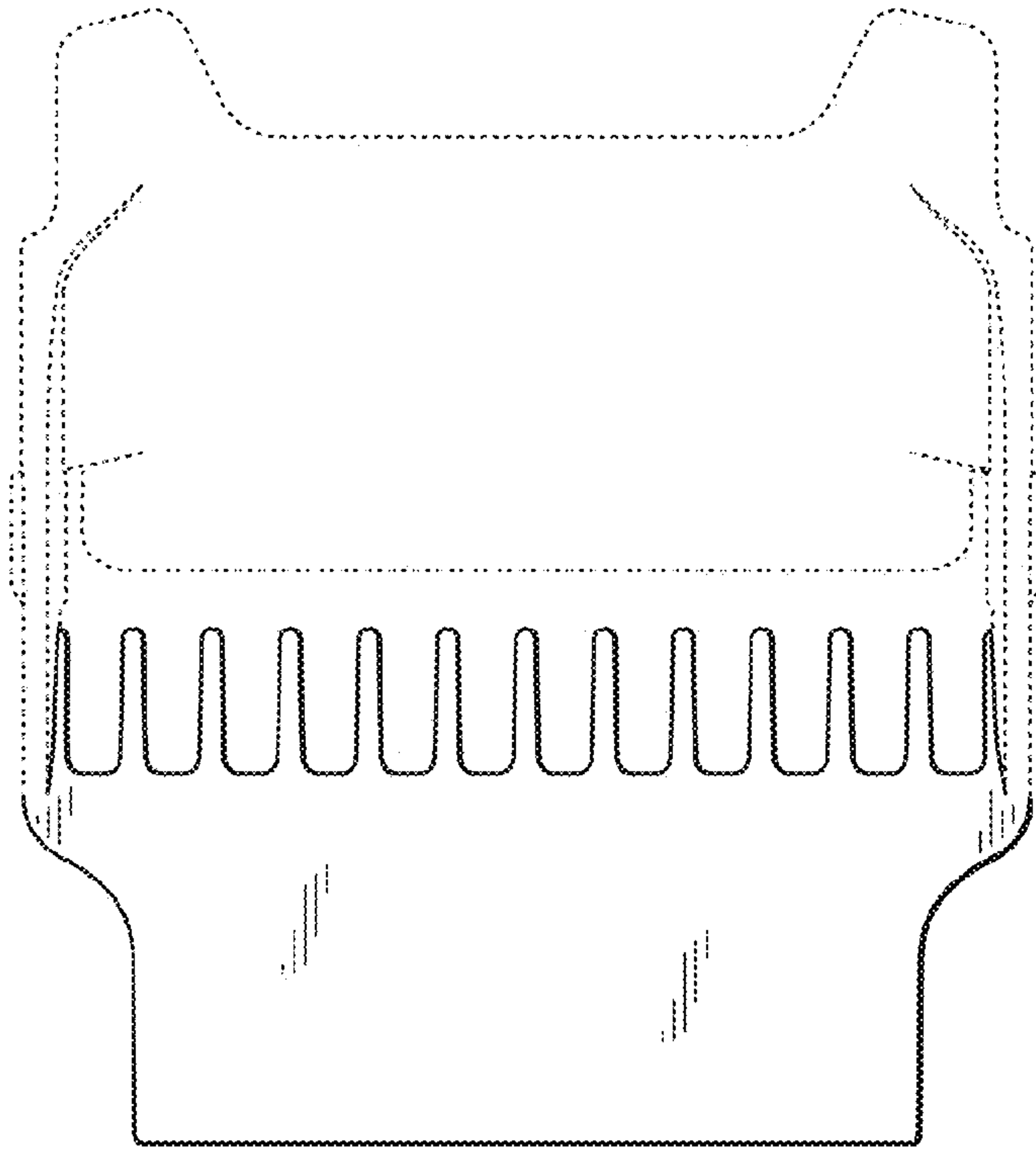


FIG. 11

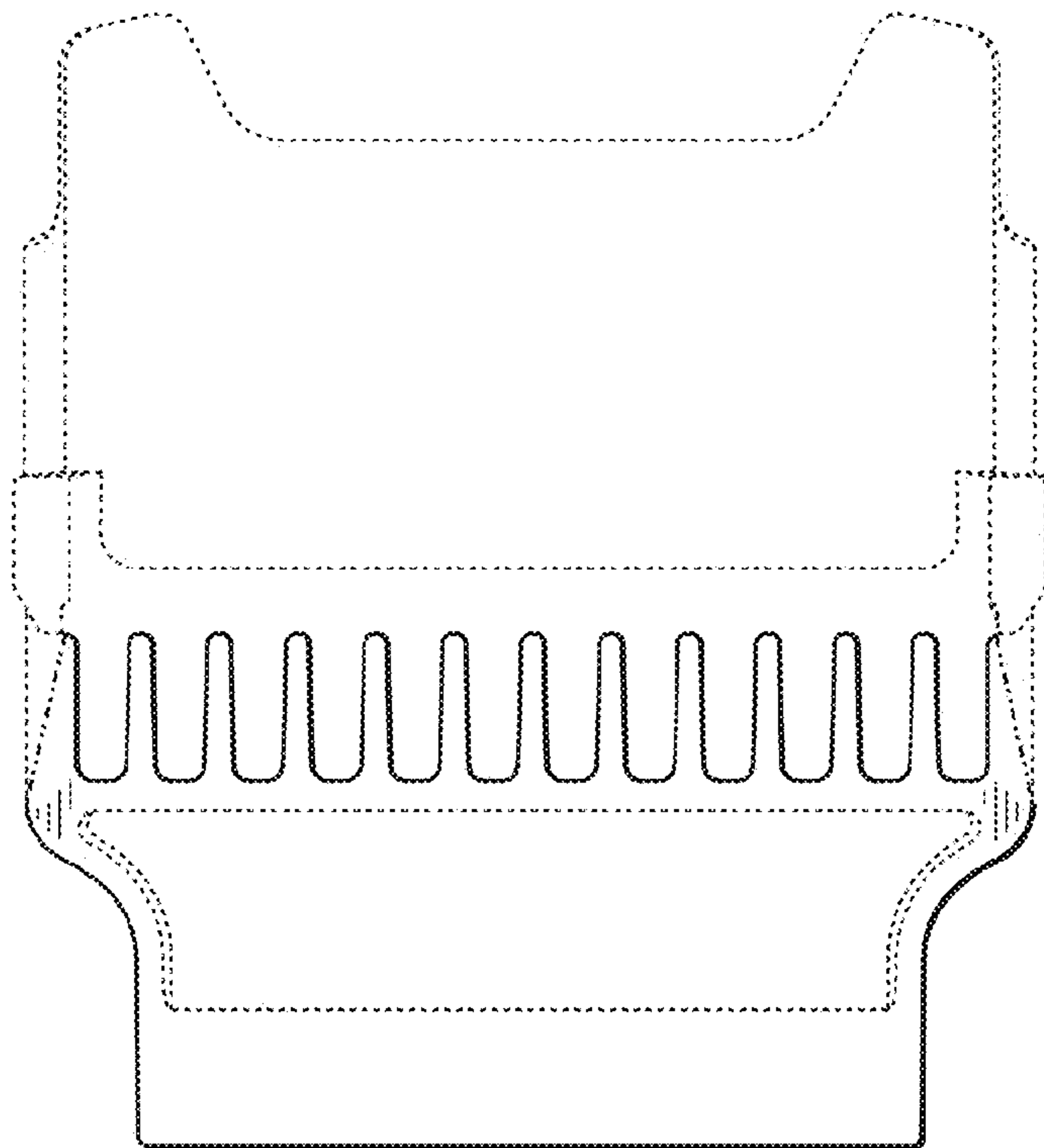


FIG. 12

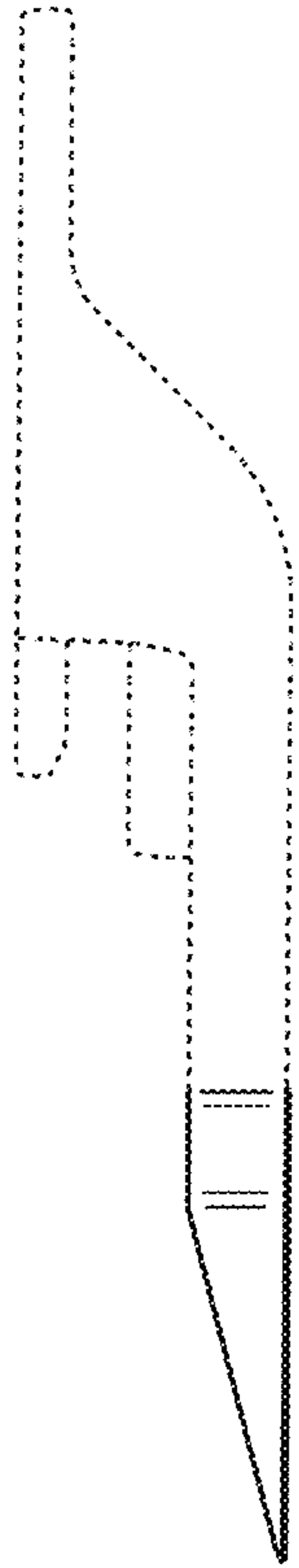


FIG. 13

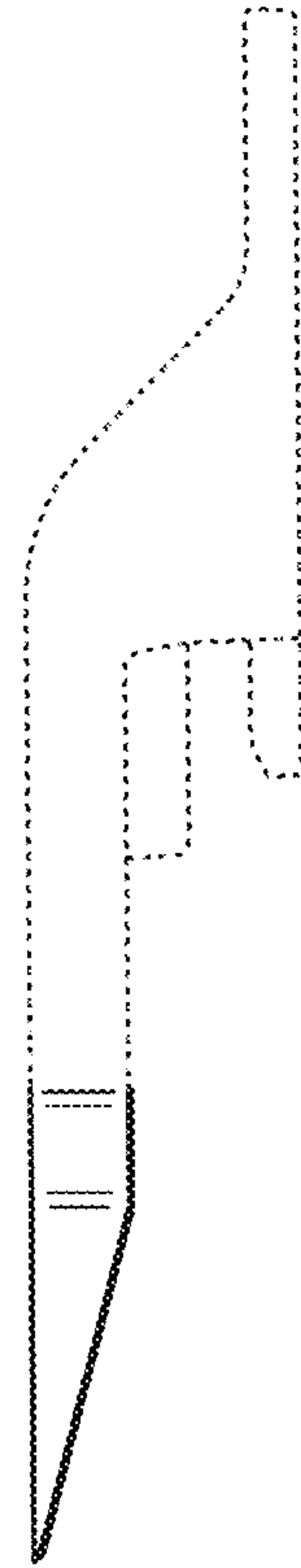


FIG. 14

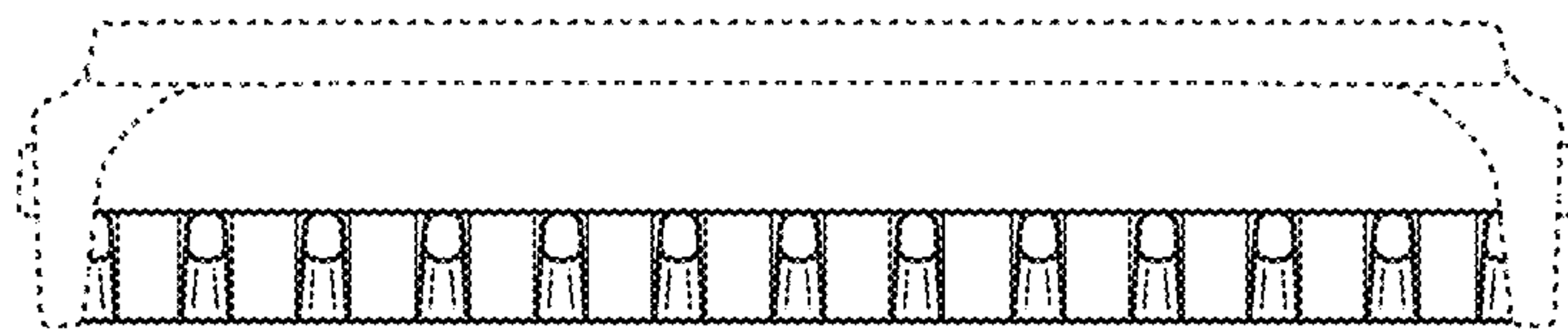


FIG. 15

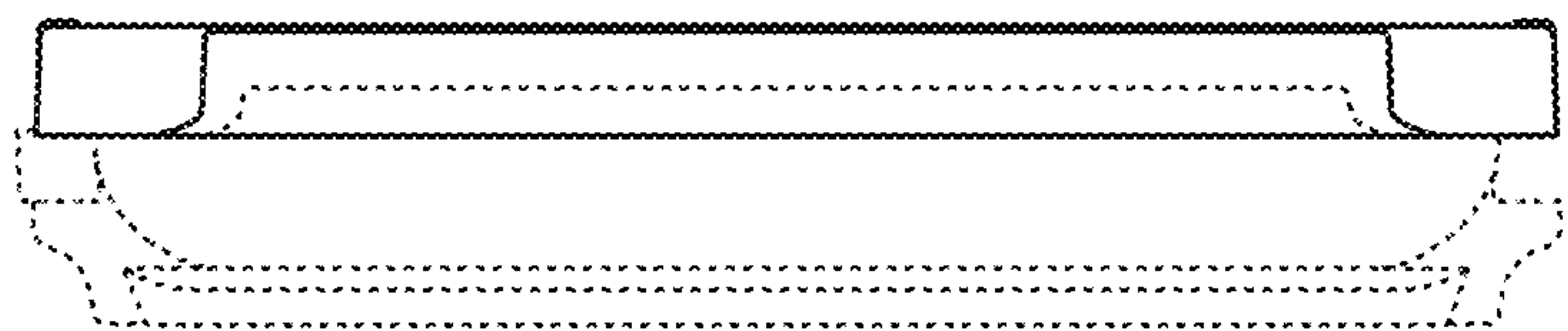


FIG. 16

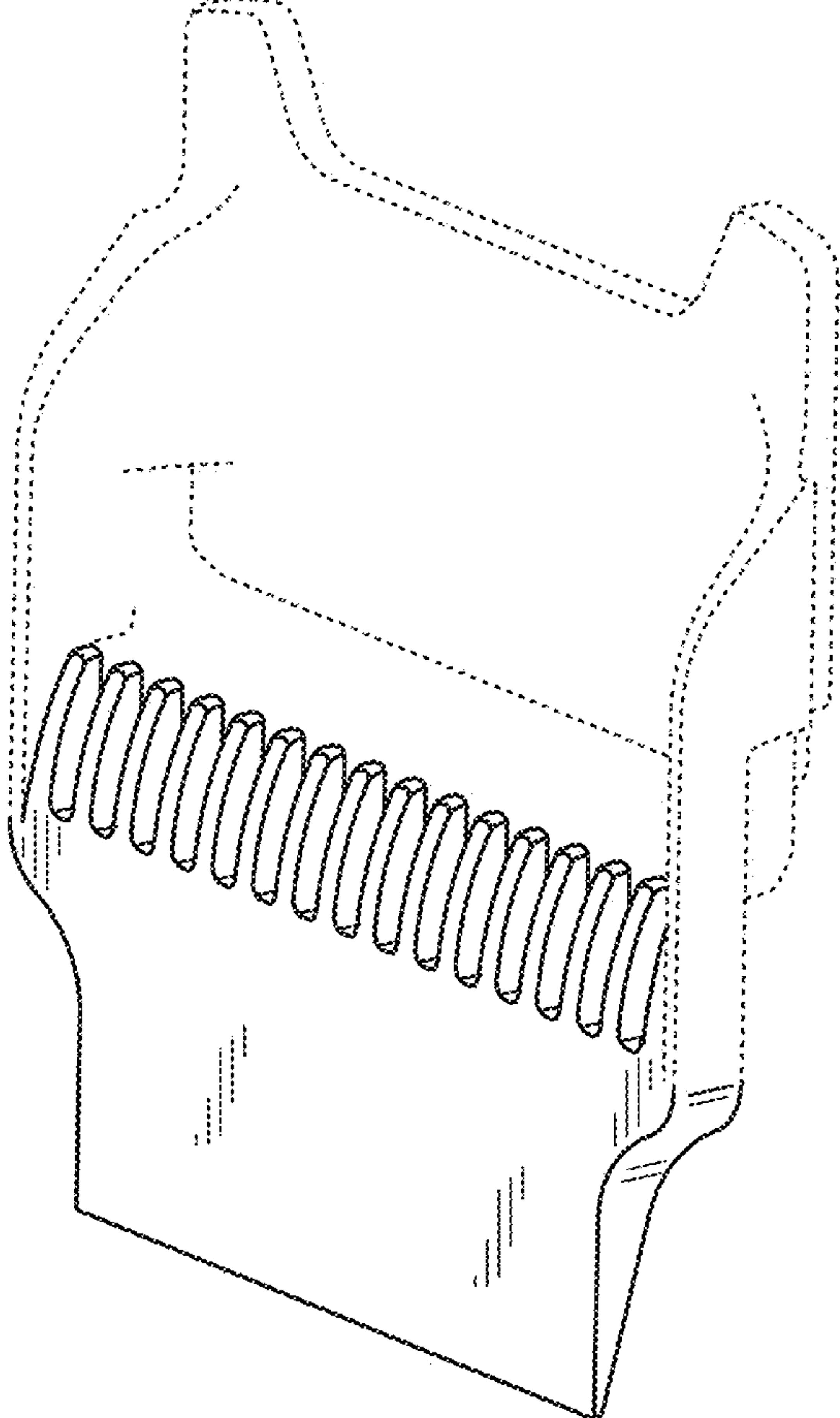


FIG. 17

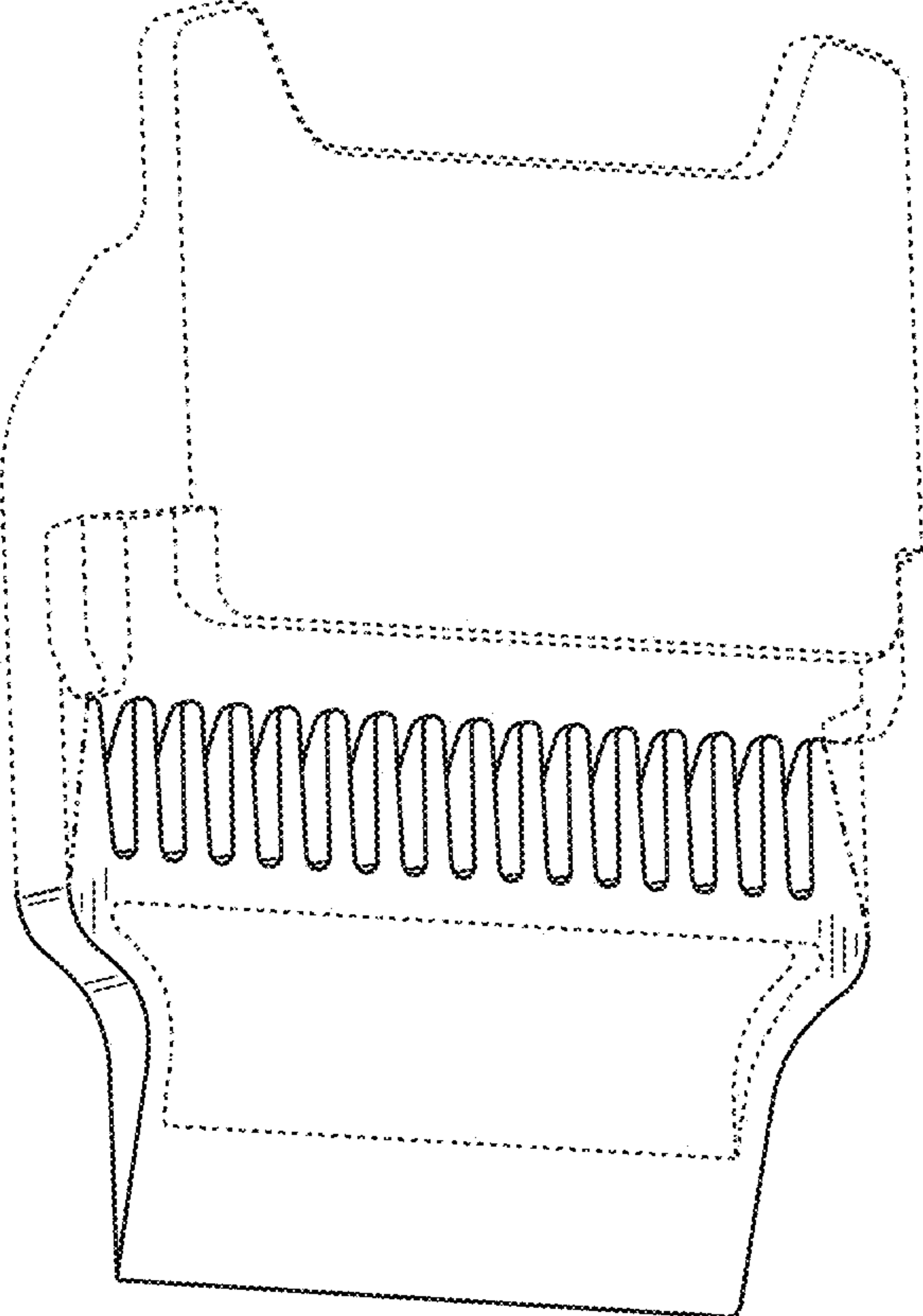


FIG. 18

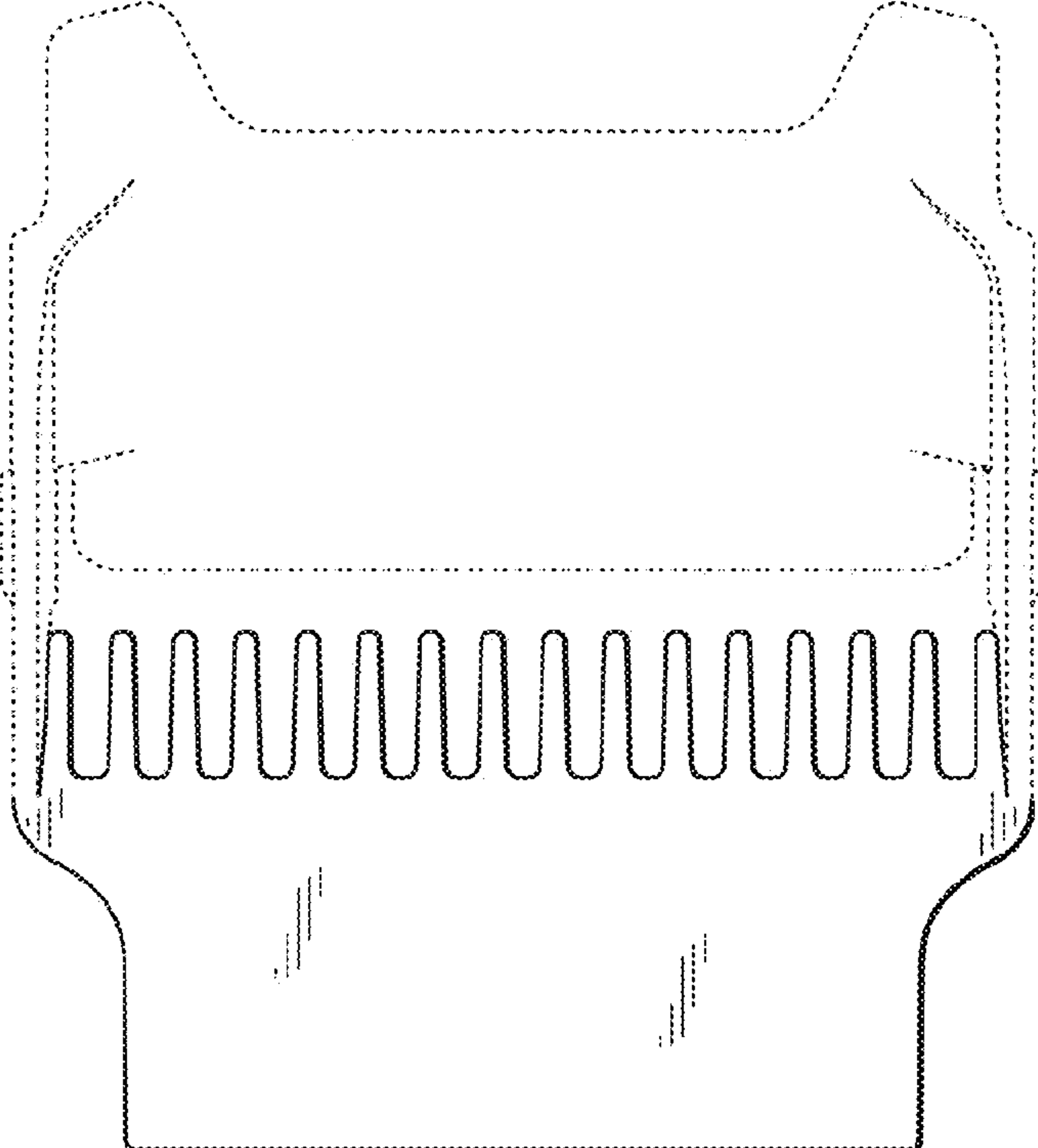


FIG. 19

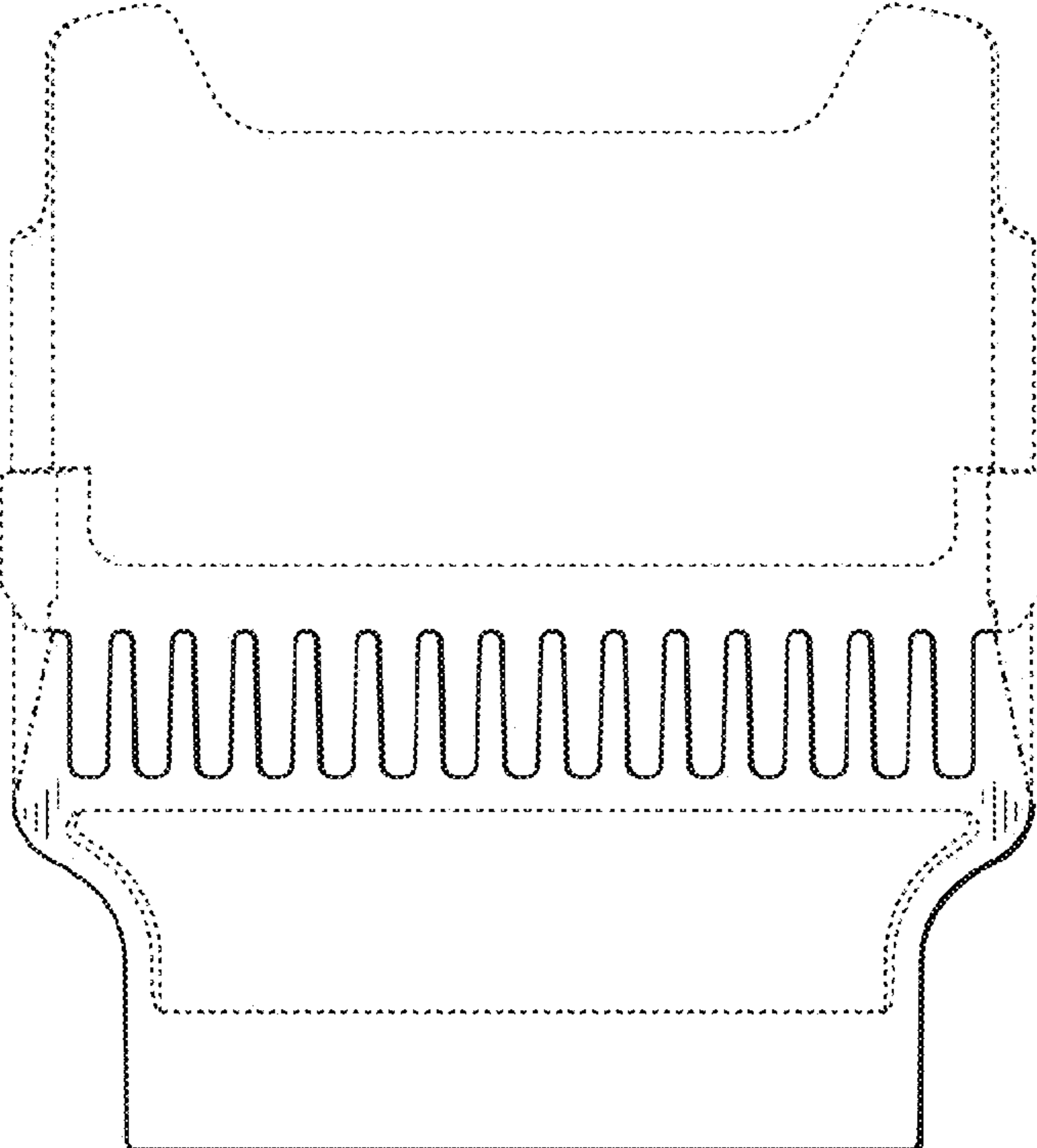


FIG. 20

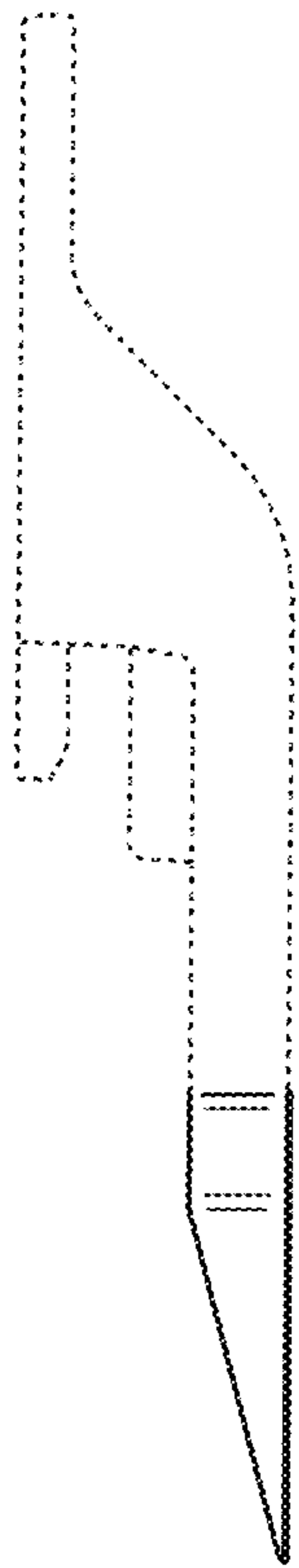


FIG. 21

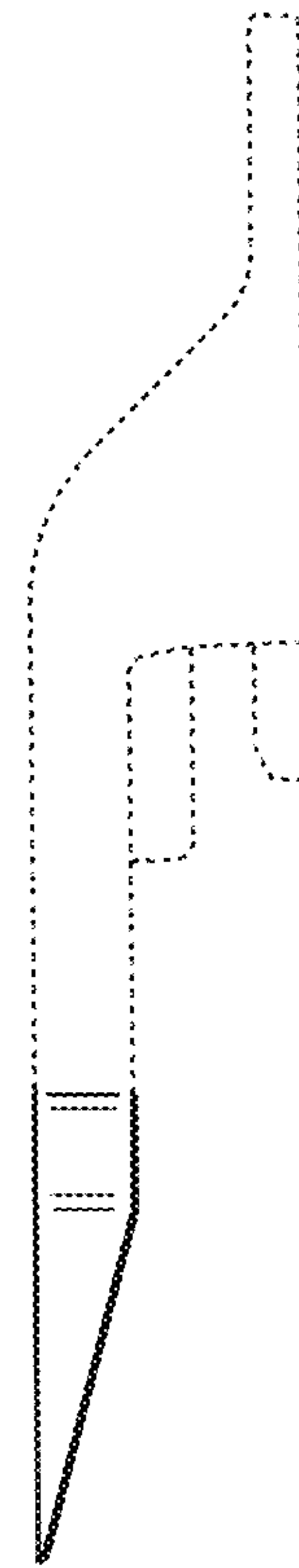


FIG. 22

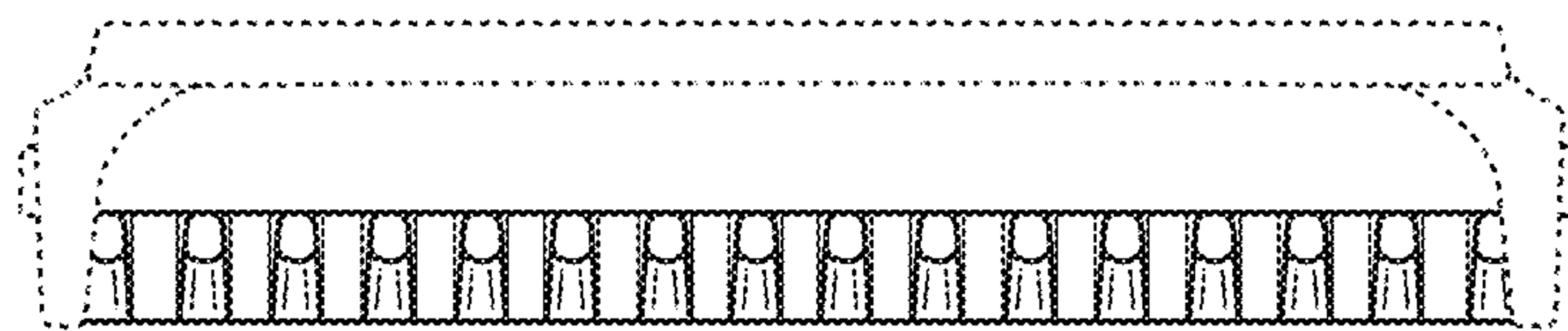


FIG. 23

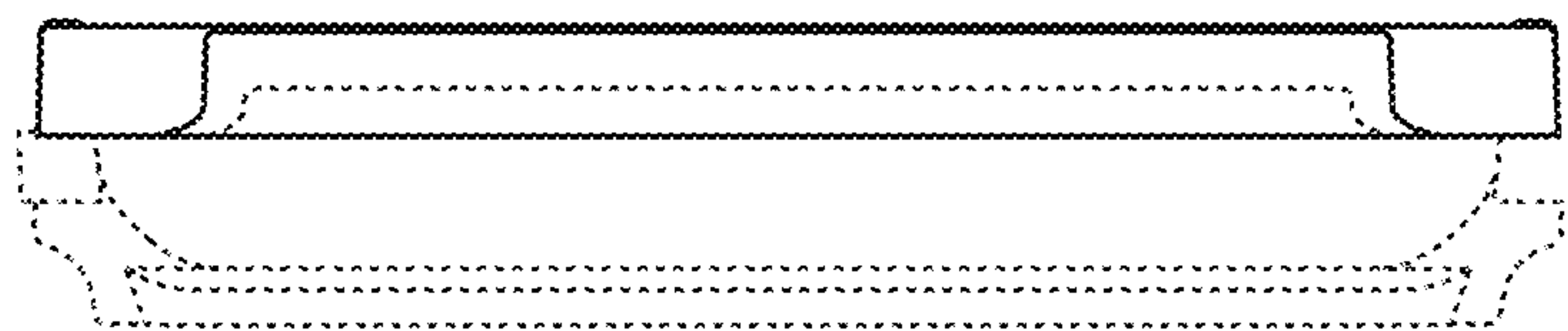


FIG. 24