



US00D806894S

(12) **United States Design Patent**
Nelson

(10) **Patent No.:** **US D806,894 S**
(45) **Date of Patent:** **** Jan. 2, 2018**

(54) **ELECTROPHORESIS COMB WITH WEDGE-SHAPED TEETH**

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

(72) Inventor: **Paul Nelson**, Encinitas, CA (US)

(73) Assignee: **LIFE TECHNOLOGIES CORPORATION**, Carlsbad, CA (US)

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

(21) Appl. No.: **29/587,520**

(22) Filed: **Dec. 13, 2016**

Related U.S. Application Data

(62) Division of application No. 29/520,974, filed on Mar. 19, 2015, now abandoned.

(51) **LOC (11) Cl.** **24-99**

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

(58) **Field of Classification Search**
USPC D24/224–233, 216–217, 220–221;
D10/81

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,620,947 A 11/1971 Allen et al.
D231,609 S 5/1974 Broek et al.

(Continued)

FOREIGN PATENT DOCUMENTS

WO 1998025136 6/1998

OTHER PUBLICATIONS

BIO-RAD, Automating electrophoresis with the new Experion (TM) System, *BioRadiations*, No. 115, 2005, 36 pages.

(Continued)

Primary Examiner — Wan Laymon

(57) **CLAIM**

The ornamental design for an electrophoresis comb with wedge-shaped teeth, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and side perspective view of an electrophoresis comb with wedge-shaped teeth, according to a first exemplary embodiment;

FIG. 2 is a back, top and side perspective view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 3 is a front view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 4 is a back view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 5 is a right side view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 6 is a left side view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 7 is a top view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 8 is a bottom view of the electrophoresis comb with wedge-shaped teeth of FIG. 1;

FIG. 9 is a front, top and side perspective view of an electrophoresis comb with wedge-shaped teeth, according to a second exemplary embodiment;

FIG. 10 is a back, top and side perspective view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

FIG. 11 is a front view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

FIG. 12 is a back view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

FIG. 13 is a right side view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

FIG. 14 is a left side view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

FIG. 15 is a top view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

FIG. 16 is a bottom view of the electrophoresis comb with wedge-shaped teeth of FIG. 9;

(Continued)

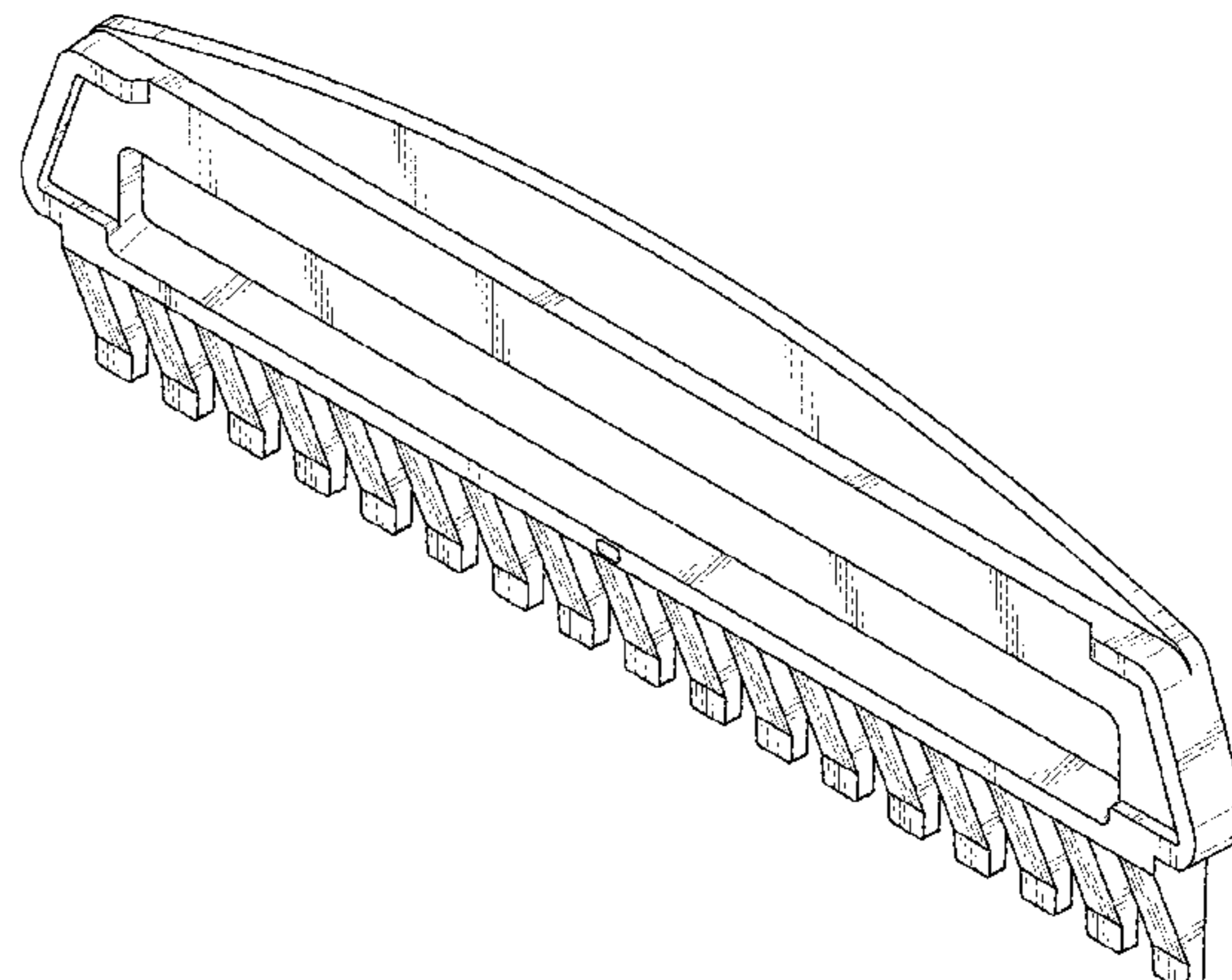
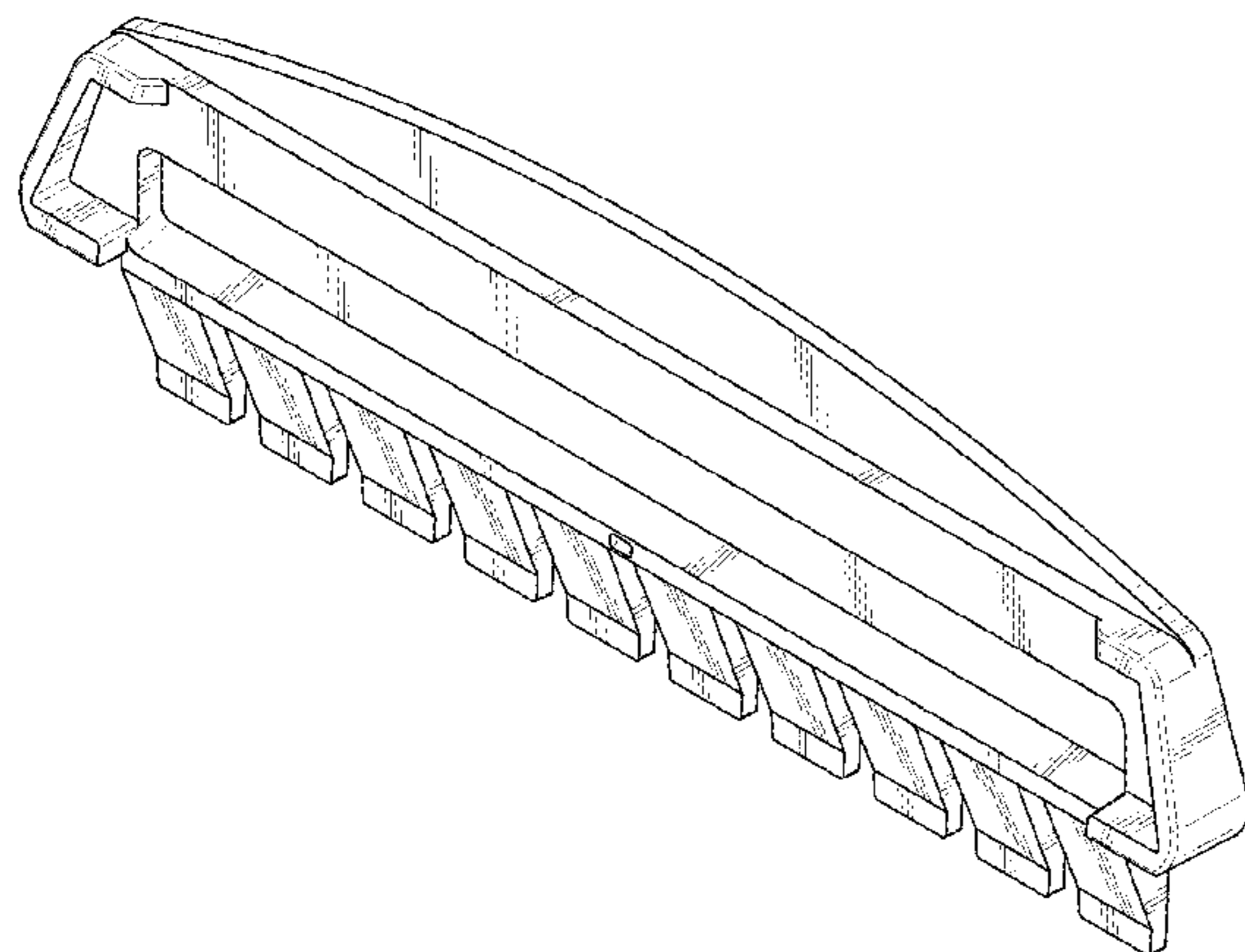


FIG. 17 is a front, top and side perspective view of an electrophoresis comb with wedge-shaped teeth, according to a third exemplary embodiment;
 FIG. 18 is a back, top and side perspective view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 19 is a front view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 20 is a back view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 21 is a right side view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 22 is a left side view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 23 is a top view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 24 is a bottom view of the electrophoresis comb with wedge-shaped teeth of FIG. 17;
 FIG. 25 is a front, top and side perspective view of an electrophoresis comb with wedge-shaped teeth, according to a fourth exemplary embodiment;
 FIG. 26 is a back, top and side perspective view of the electrophoresis comb with wedge-shaped teeth of FIG. 25;
 FIG. 27 is a front view of the electrophoresis comb with wedge-shaped teeth of FIG. 25;
 FIG. 28 is a back view of the electrophoresis comb with wedge-shaped teeth of FIG. 25;
 FIG. 29 is a right side view of the electrophoresis comb with wedge-shaped teeth of FIG. 25;
 FIG. 30 is a left side view of the electrophoresis comb with wedge-shaped teeth of FIG. 25;
 FIG. 31 is a top view of the electrophoresis comb with wedge-shaped teeth of FIG. 25; and,
 FIG. 32 is a bottom view of the electrophoresis comb with wedge-shaped teeth of FIG. 25.

1 Claim, 24 Drawing Sheets

(58) **Field of Classification Search**

CPC G01N 27/44704; G01N 27/447; G01N 27/44743; G01N 27/44756; G01N 27/44769; G01N 27/44778; G01N 27/44782; G01N 27/44786

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,164,464 A 8/1979 Allington et al.
 4,294,684 A 10/1981 Sewer

4,339,327	A *	7/1982	Tyler	G01N 27/44756 204/619
D282,352	S	1/1986	Hoefler et al.	
4,608,146	A	8/1986	Penaluna	
4,773,984	A	9/1988	Flesher et al.	
4,795,541	A	1/1989	Hurd et al.	
4,830,725	A	5/1989	Berninger et al.	
D303,007	S	8/1989	Flesher et al.	
D315,952	S	4/1991	Berninger et al.	
5,073,246	A	12/1991	Chu et al.	
5,147,522	A	9/1992	Sarrine et al.	
5,338,426	A	8/1994	Shigeura et al.	
5,407,552	A	4/1995	Lebacq	
5,411,657	A	5/1995	Leka	
D367,713	S	3/1996	LaMotte	
5,514,255	A	5/1996	Gautsch	
5,569,369	A	10/1996	Leffler et al.	
5,618,399	A	4/1997	Gautsch et al.	
5,626,735	A	5/1997	Chu et al.	
5,627,022	A	5/1997	Renfrew	
5,632,877	A	5/1997	Van Atta	
5,938,906	A	8/1999	Moi et al.	
5,972,188	A	10/1999	Rice et al.	
5,989,403	A	11/1999	Provonchee	
6,063,250	A	5/2000	Becker et al.	
D430,304	S	8/2000	Oonuma et al.	
6,110,344	A	8/2000	Renfrew et al.	
D443,068	S *	5/2001	Manusu	D24/233
6,413,402	B1	7/2002	Manusu et al.	
6,521,111	B1	2/2003	Amshey	
6,544,395	B1	4/2003	Merchant et al.	
D516,733	S	3/2006	Pedraza et al.	
D524,948	S	7/2006	Pedraza et al.	
7,135,101	B2 *	11/2006	Atchison	G01N 27/44704 204/467
D564,378	S	3/2008	Kaushal et al.	
D564,924	S	3/2008	Kaushal et al.	
D667,134	S	9/2012	Updyke et al.	
D719,277	S	12/2014	Miller et al.	
9,234,874	B2	1/2016	Panattoni et al.	
9,714,918	B2 *	7/2017	Updyke	G01N 27/44778
2006/0163067	A1 *	7/2006	Sevigny	G01N 27/44704 204/465
2007/0284250	A1	12/2007	Magnant	
2008/0272002	A1	11/2008	Johansen et al.	
2011/0042217	A1	2/2011	Updyke	
2011/0114487	A1	5/2011	Schmidt et al.	
2016/0041123	A1	2/2016	Guadagno	

OTHER PUBLICATIONS

Phywe, Electrophoresis chamber, Vertical. Product No. 35018-20, <http://www.phywe.com/461/apg/360/pid/27438/Elektrophorese-Kammer,-vertikal-htm>> Feb. 13, 2013, 1 page.
 Sigma-Aldrich Co. LLC, TV 100 mini vertical electrophoresis unit for pre-case gels, <http://www.sigmaaldrich.com/catalog/product/sigma/z649759?lang=en®ion=US>>, Feb. 13, 2013, 2 pages.

* cited by examiner

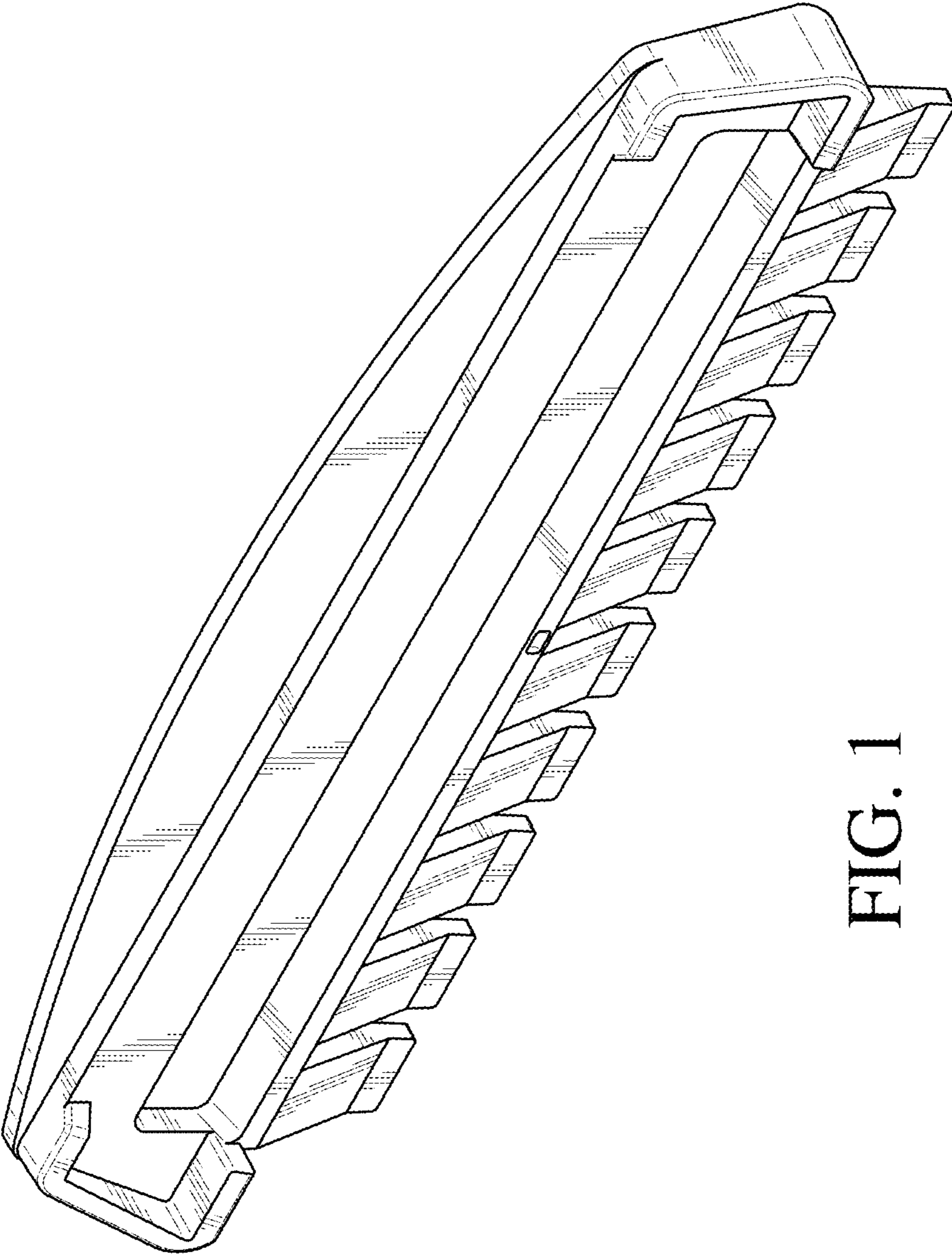


FIG. 1

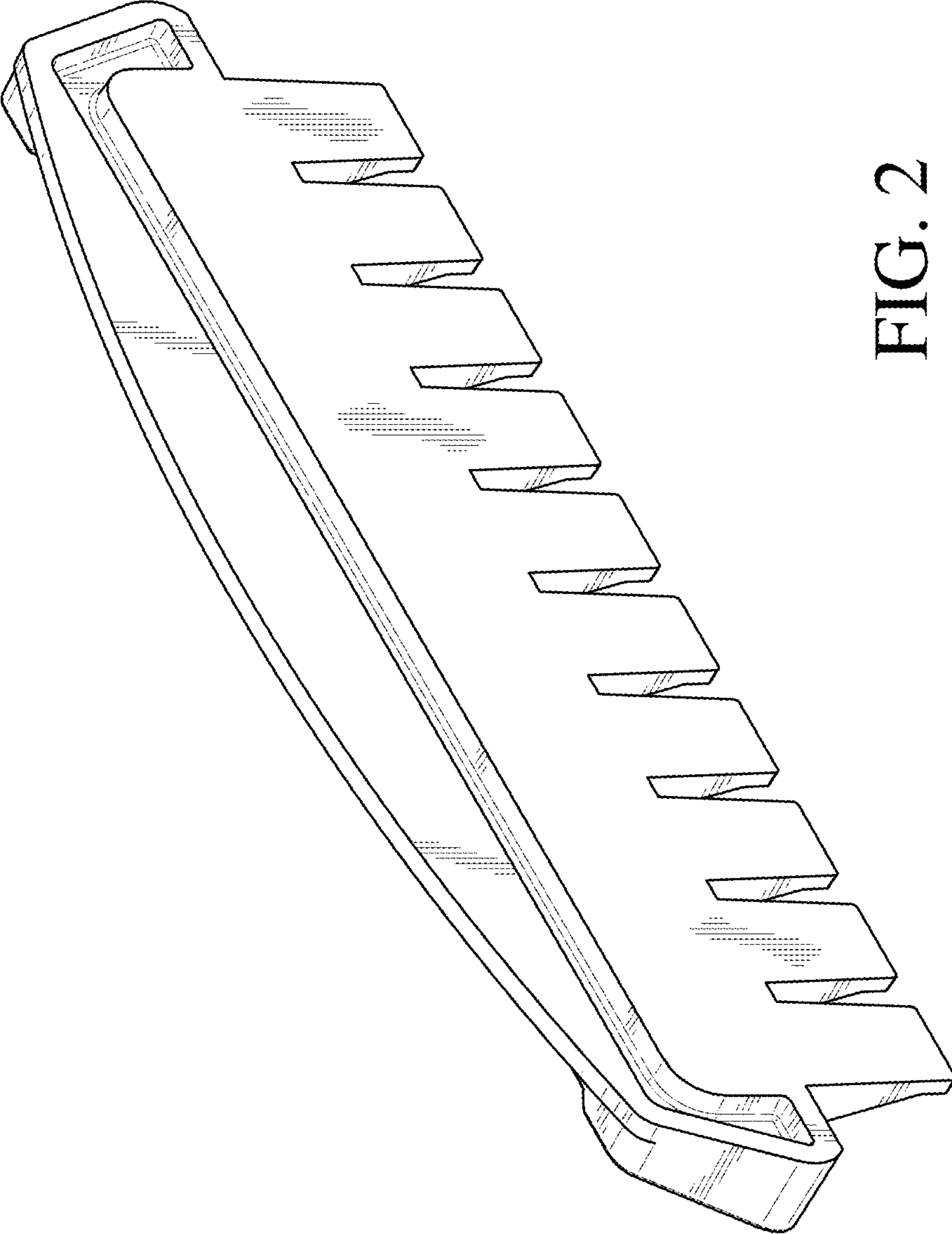


FIG. 2

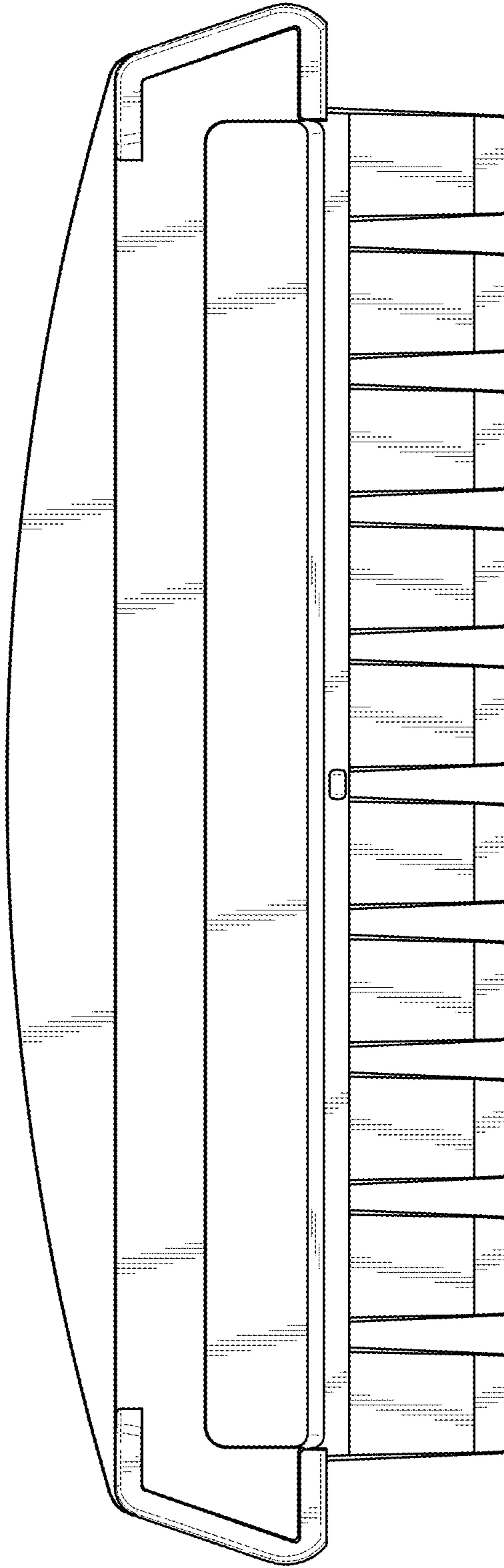


FIG. 3

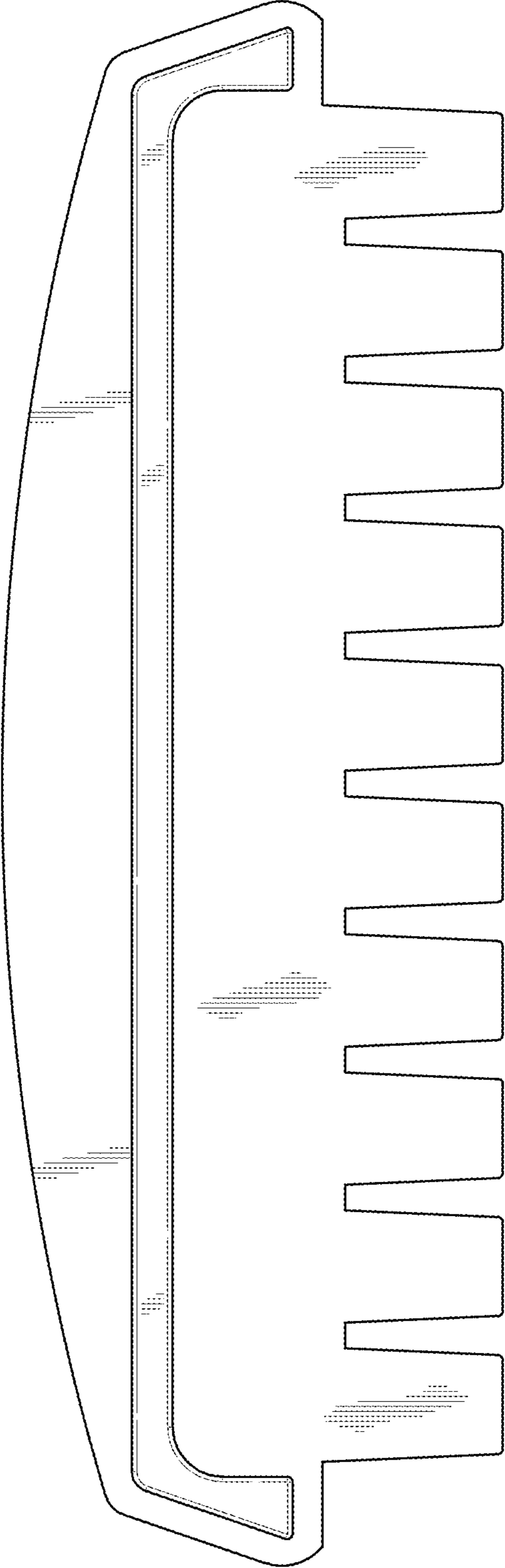


FIG. 4

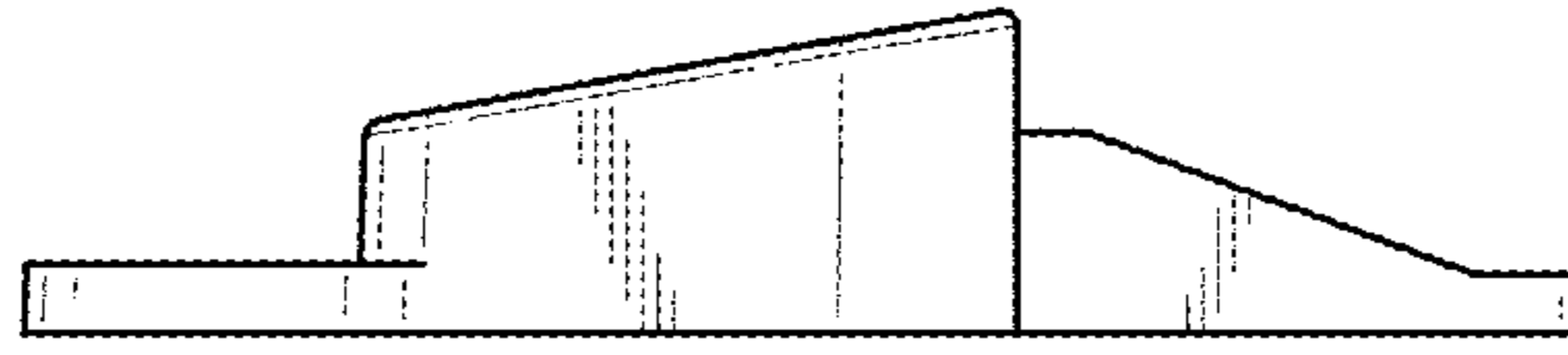


FIG. 6

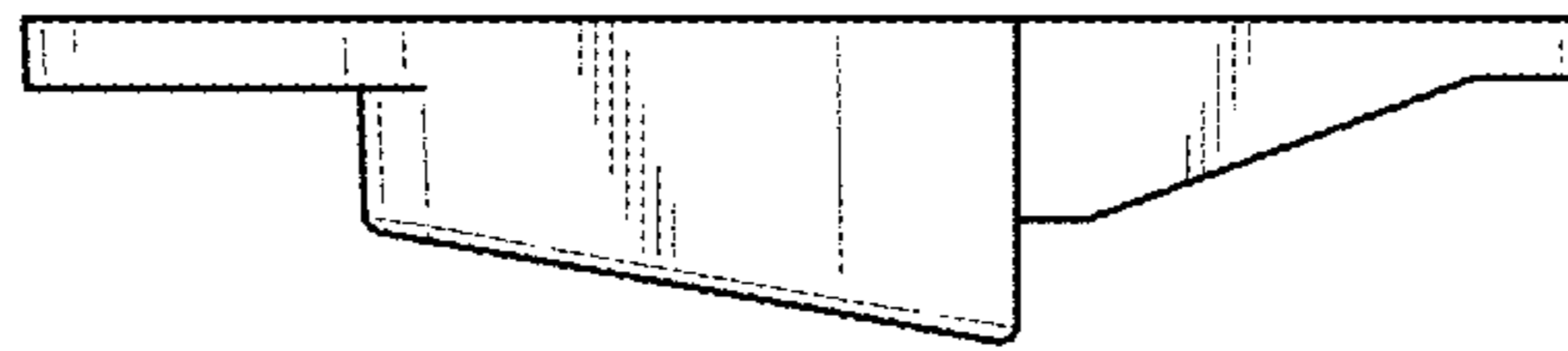


FIG. 5

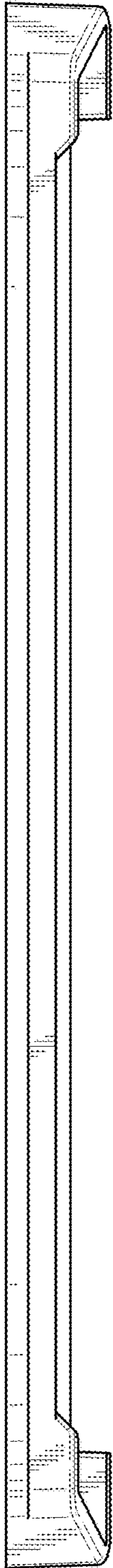


FIG. 7

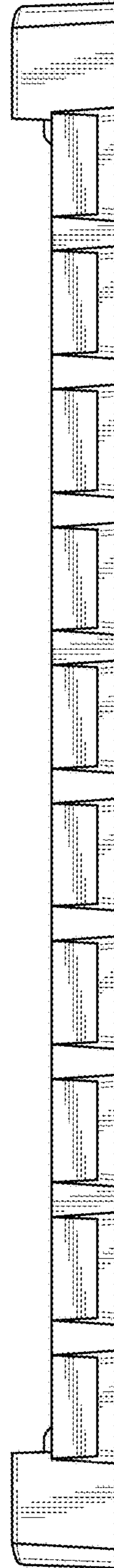


FIG. 8

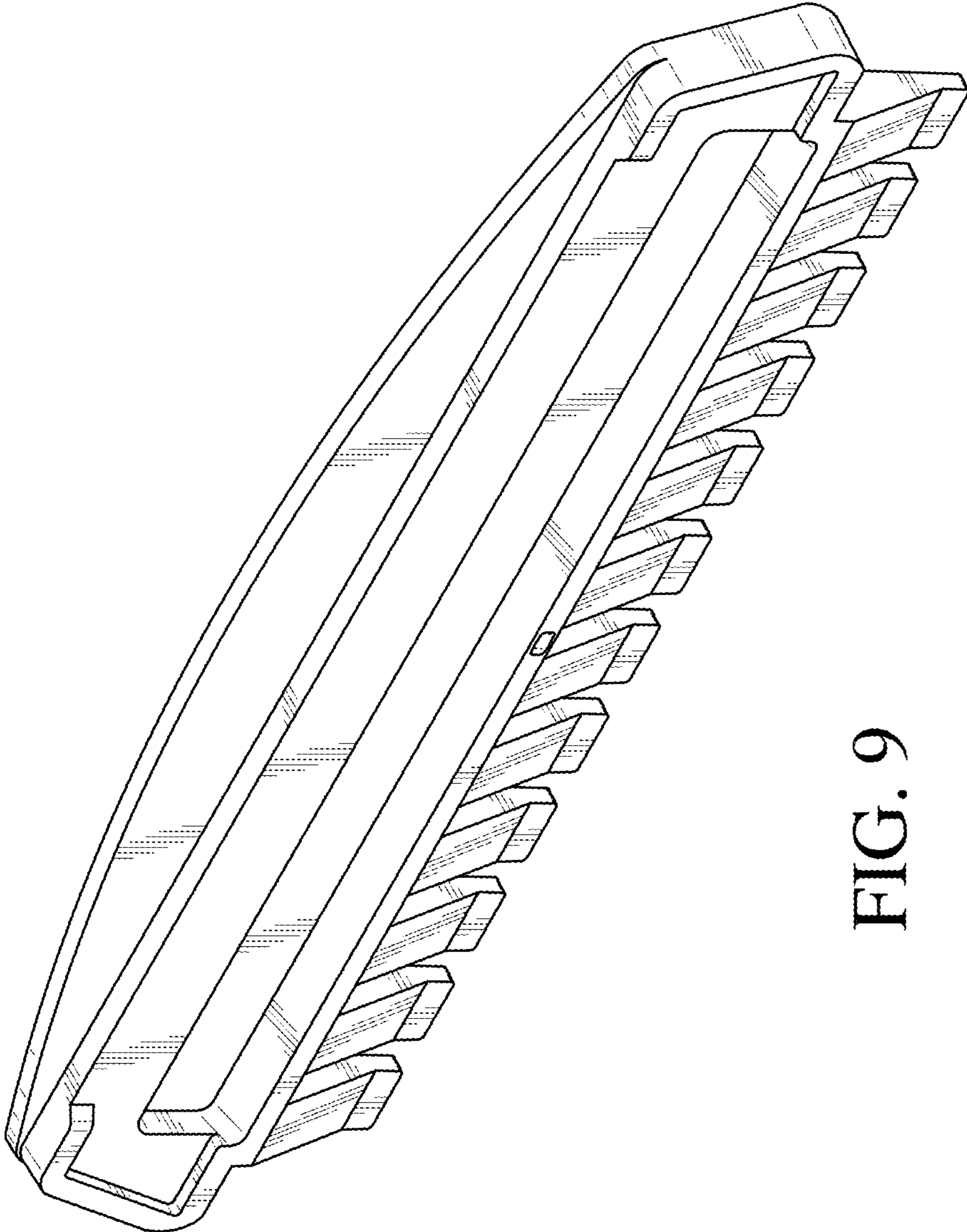


FIG. 9

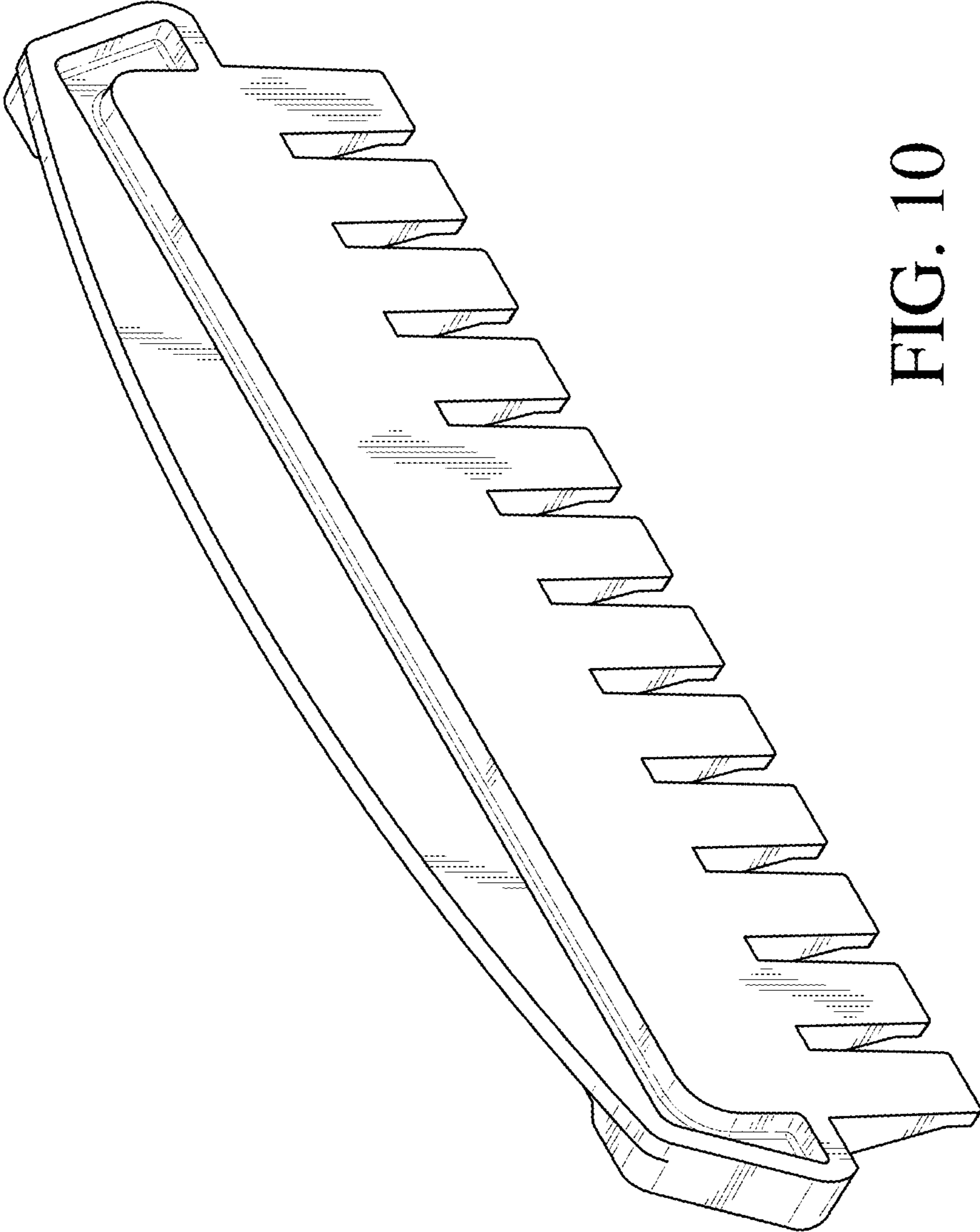


FIG. 10

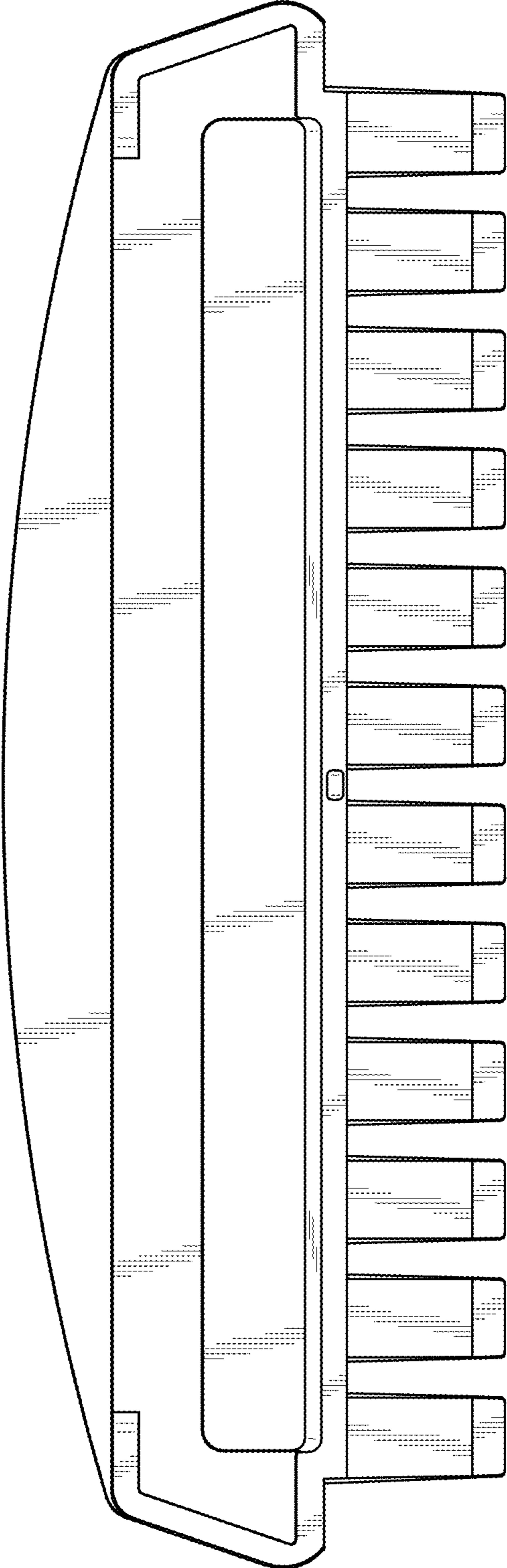


FIG. 11

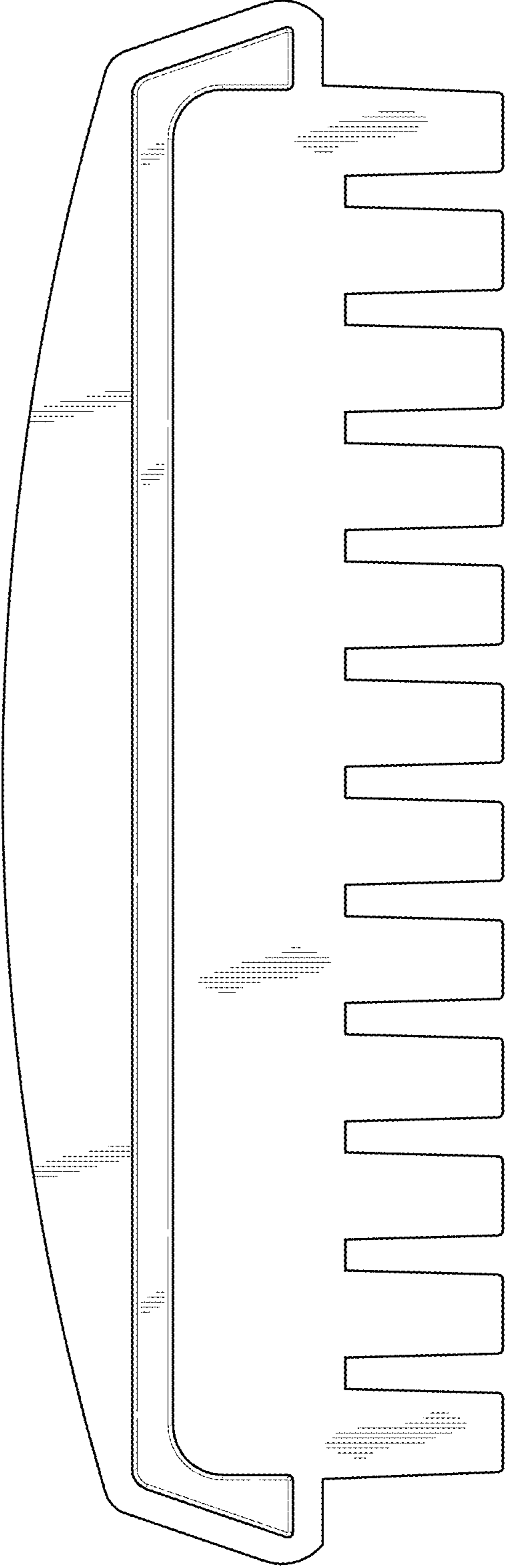


FIG. 12

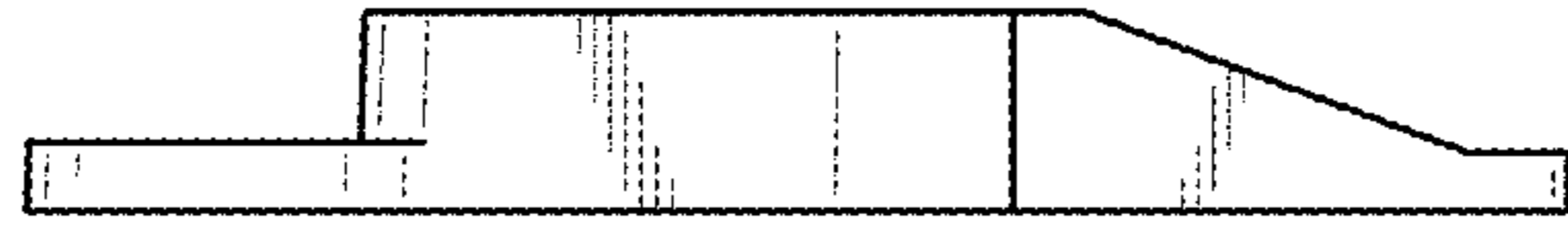


FIG. 14



FIG. 13



FIG. 15

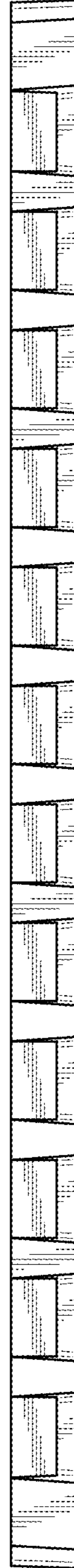


FIG. 16

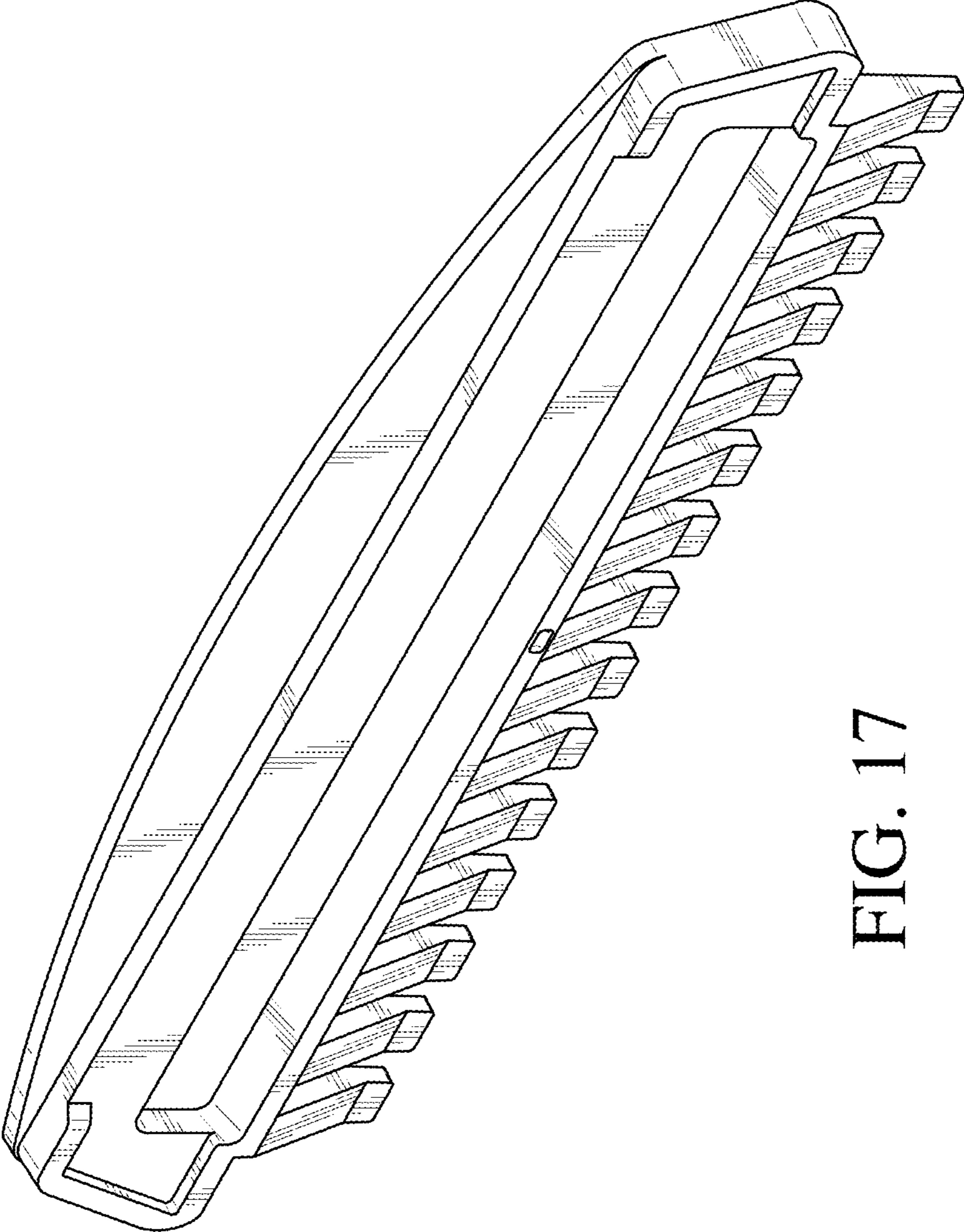


FIG. 17

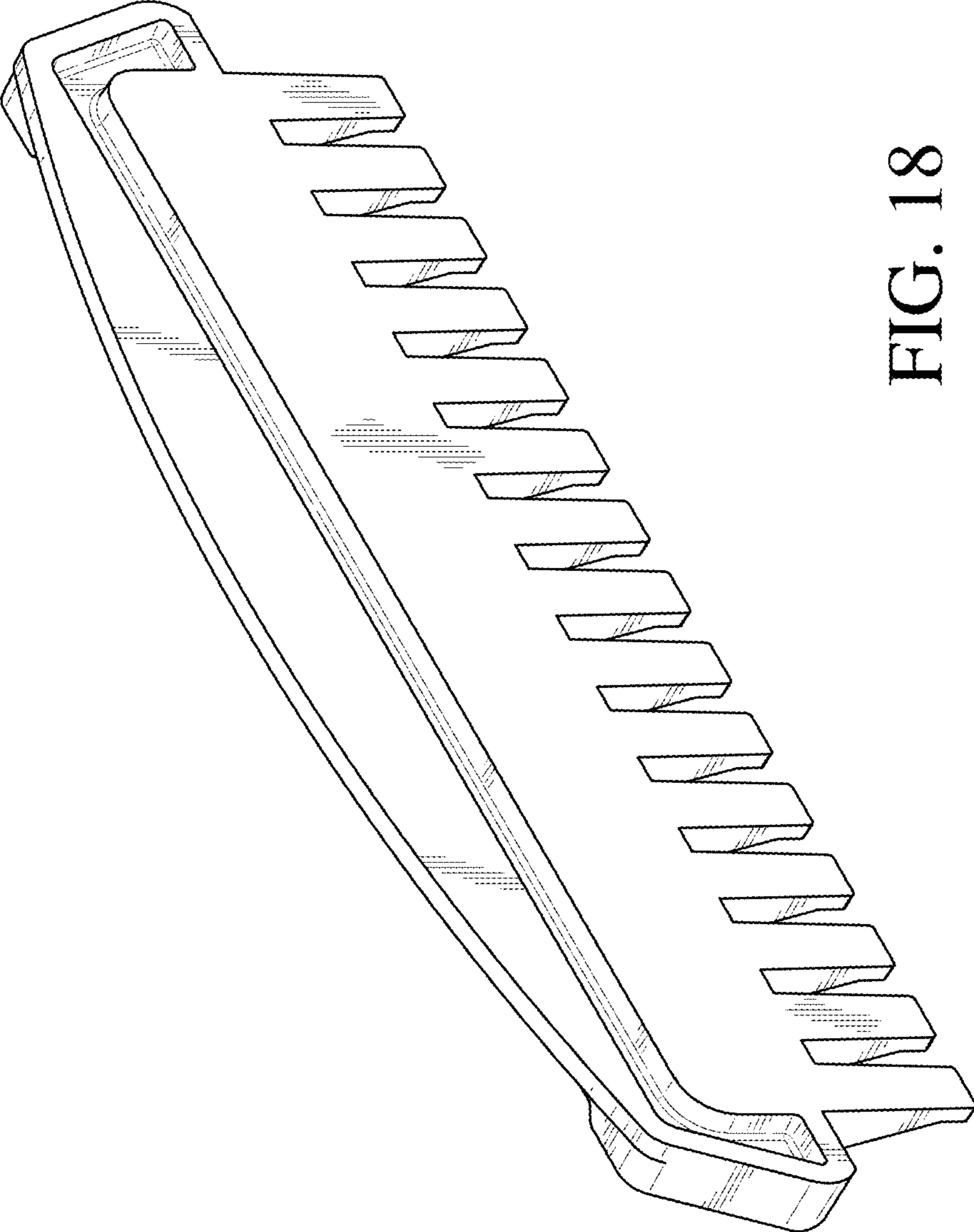


FIG. 18

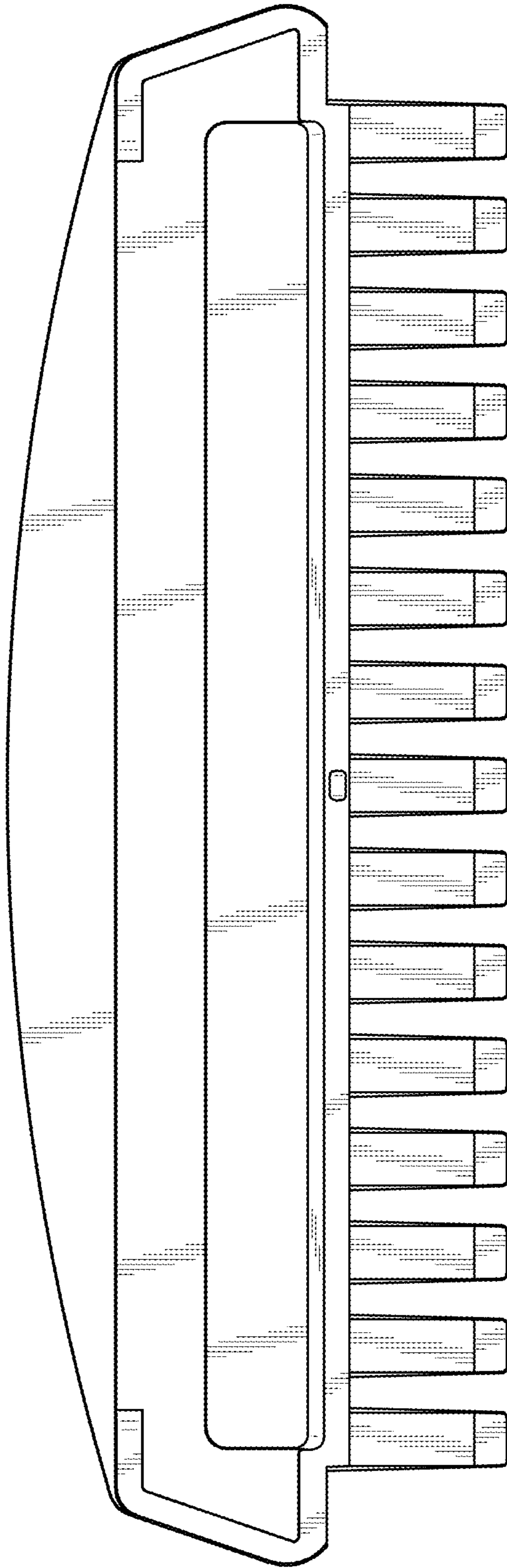


FIG. 19

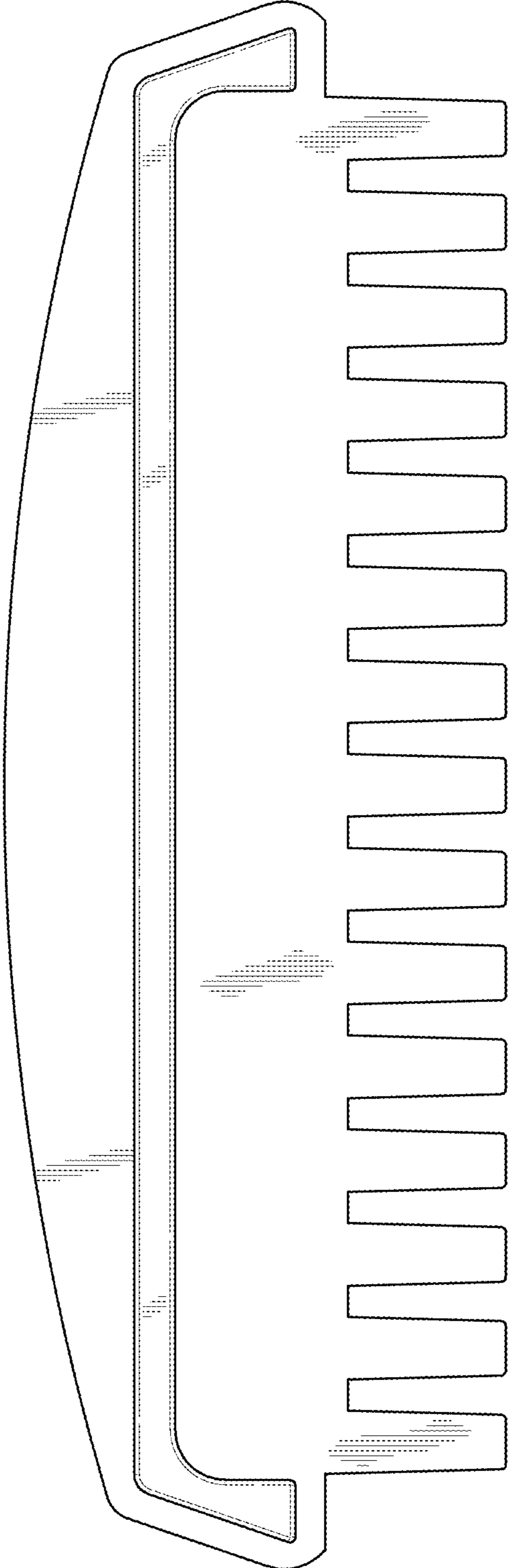


FIG. 20



FIG. 22

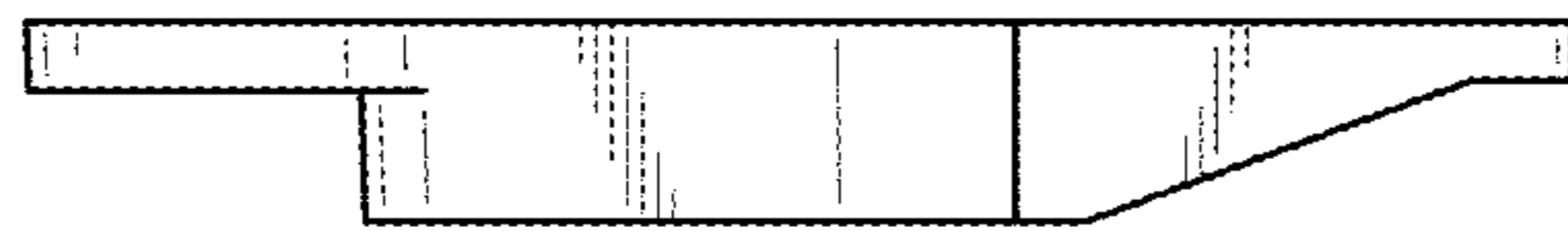


FIG. 21



FIG. 23



FIG. 24

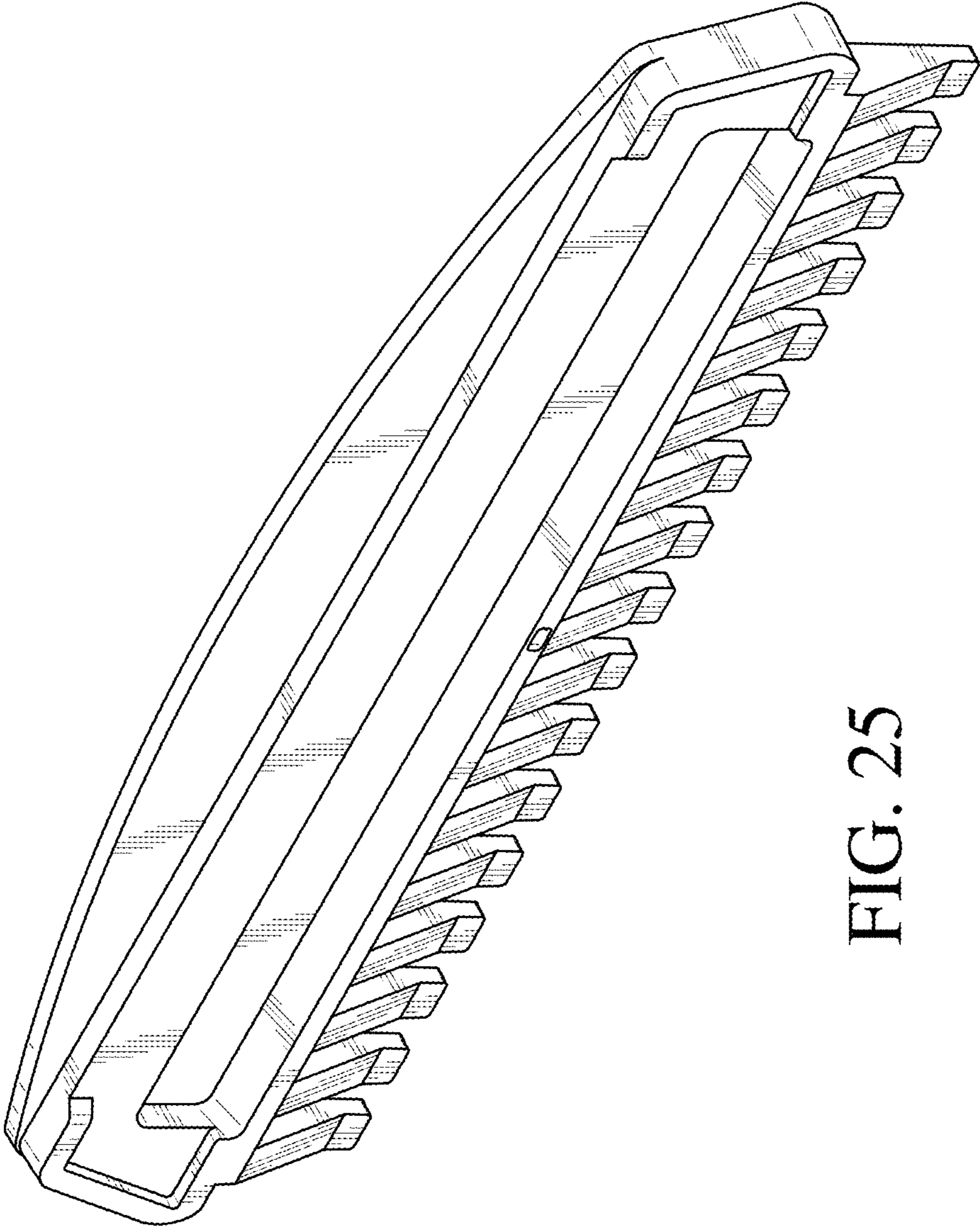


FIG. 25

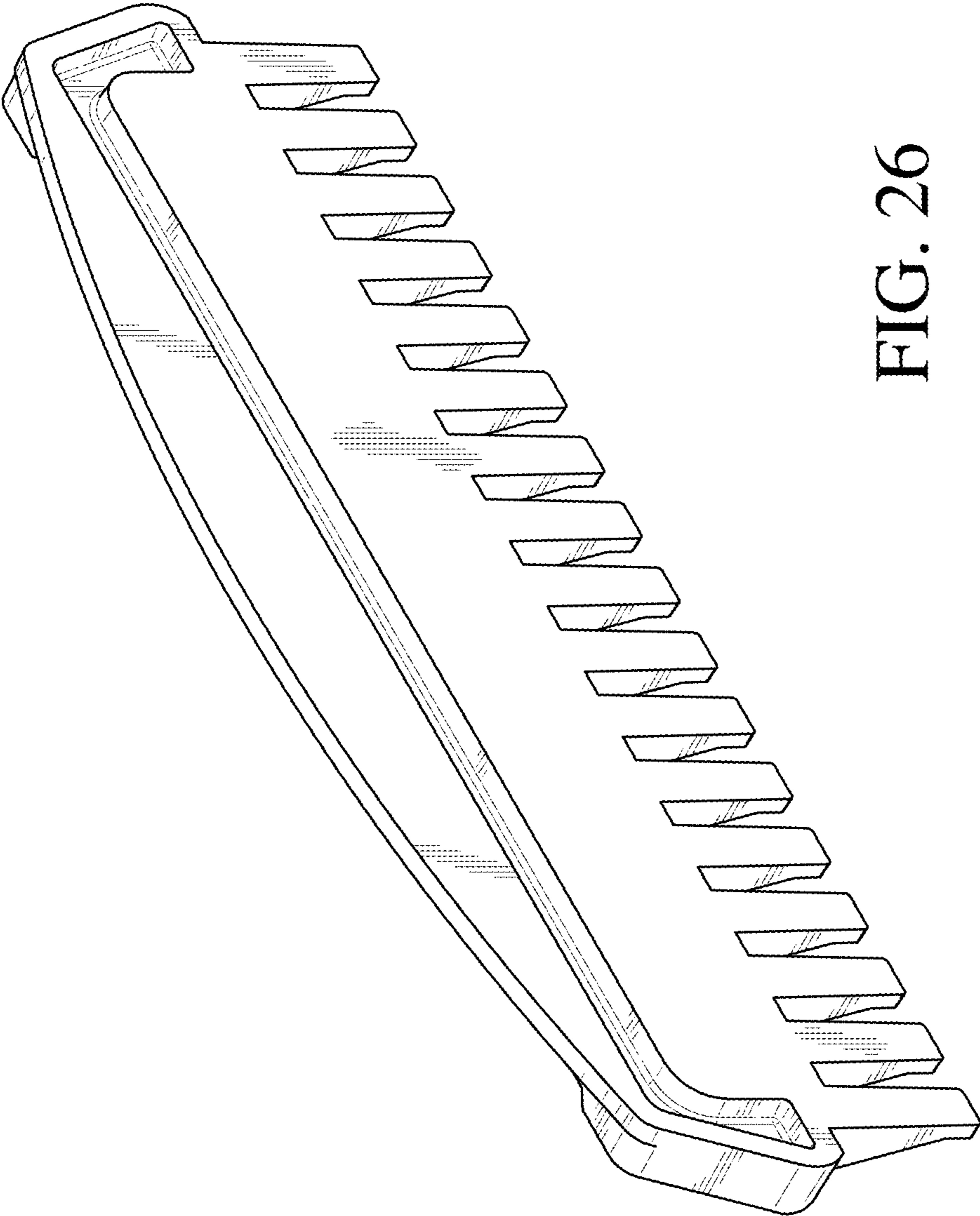


FIG. 26

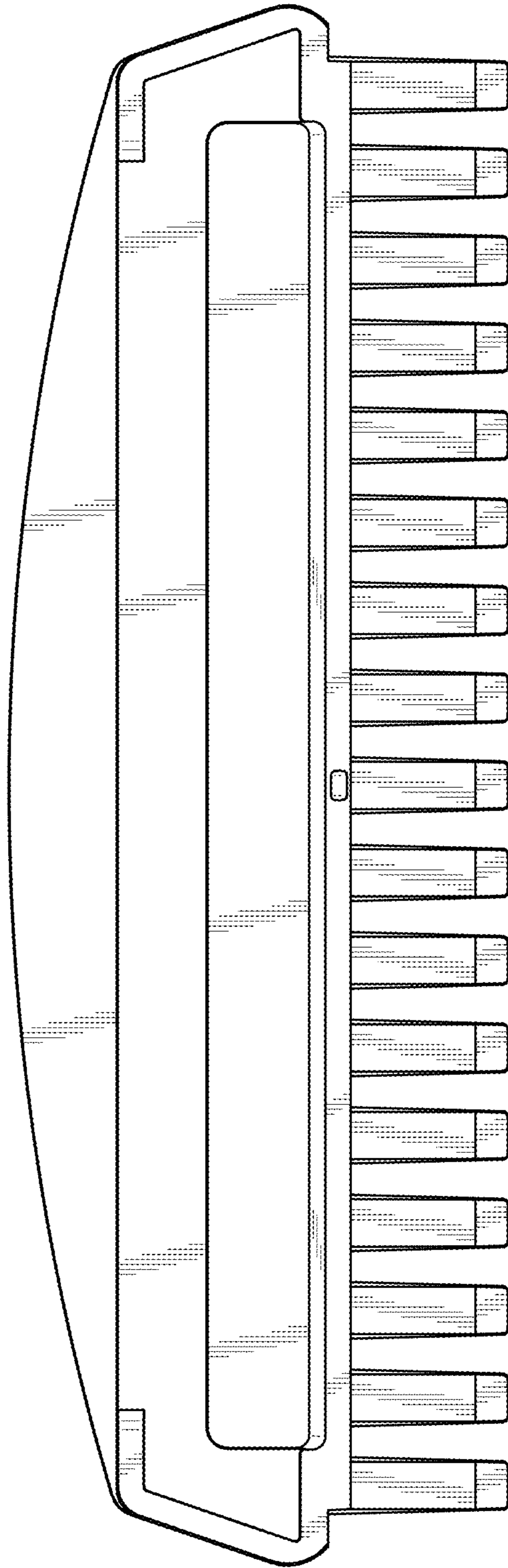


FIG. 27

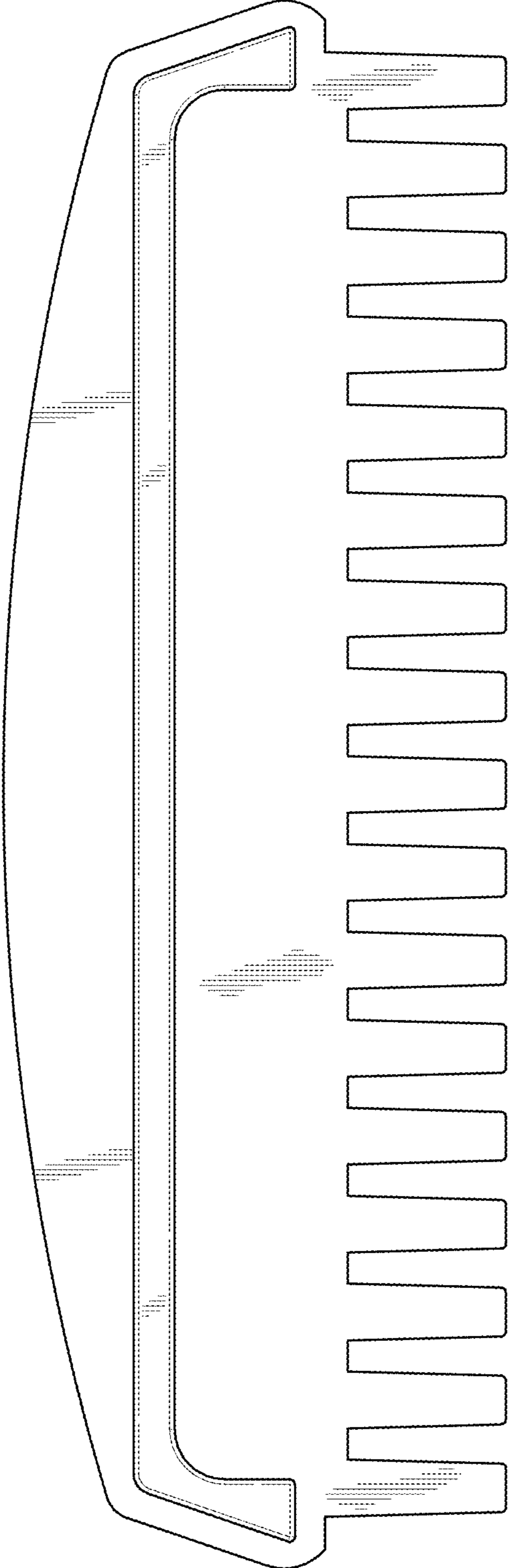


FIG. 28

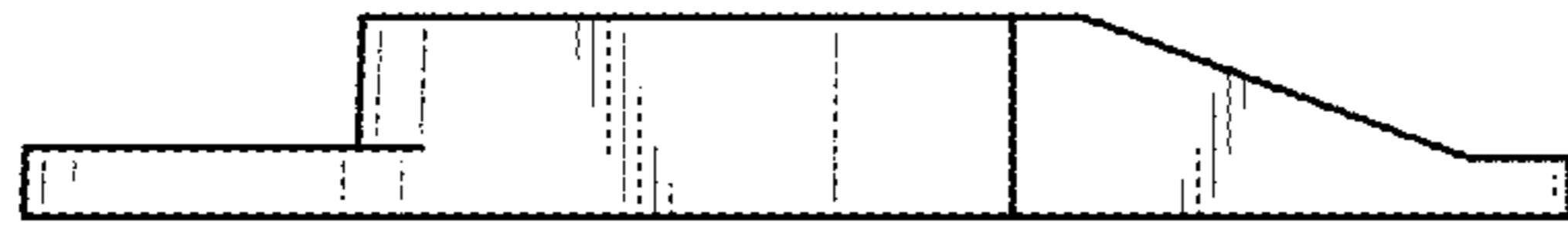


FIG. 30



FIG. 29

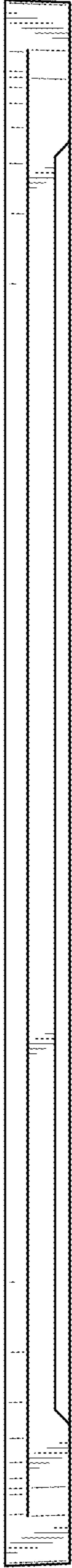


FIG. 31



FIG. 32