



US00D750252S

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

(10) **Patent No.:** **US D750,252 S**
(45) **Date of Patent:** **** Feb. 23, 2016**

- (54) **INTERVERTEBRAL IMPLANT**
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- (73) Assignee: **NuVasive, Inc.**, San Diego, CA (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/532,085**
- (22) Filed: **Jul. 1, 2015**

- 4,657,550 A 4/1987 Daher
- 4,743,256 A 5/1988 Brantigan
- 4,781,591 A 11/1988 Allen
- 4,834,757 A 5/1989 Brantigan
- 4,878,915 A 11/1989 Brantigan
- 4,932,975 A 6/1990 Main
- 4,961,740 A 10/1990 Ray
- 5,015,247 A 5/1991 Michelson
- 5,026,373 A 6/1991 Ray
- 5,047,055 A 9/1991 Bao
- 5,055,104 A 10/1991 Ray
- 5,071,437 A 12/1991 Steffee
- 5,171,278 A 12/1992 Pisharodi
- 5,192,327 A 3/1993 Brantigan

(Continued)

Related U.S. Application Data

- (63) Continuation of application No. 29/448,485, filed on Mar. 12, 2013, now Pat. No. Des. 735,336, which is a continuation of application No. 29/441,149, filed on Jan. 1, 2013, now abandoned, which is a continuation of application No. 29/367,504, filed on Aug. 9, 2010, now Pat. No. Des. 674,092, which is a continuation of application No. 29/326,326, filed on Oct. 15, 2008, now Pat. No. Des. 621,509.

(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/155**

(58) **Field of Classification Search**
USPC D24/155, 133
CPC A61F 2/4611; A61F 2/442; A61F 2/447;
A61F 2220/0025; A61F 2310/00023; A61F
2310/00017; A61F 2002/4475; A61F
2002/30841; A61F 2002/2835; A61F
2002/30904; A61F 2002/30785; A61F
2002/443; A61F 2002/30578

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,848,601 A 11/1974 Ma
- 3,867,728 A 2/1975 Stubstad
- 4,501,269 A 2/1985 Bagby

FOREIGN PATENT DOCUMENTS

- EP 0716840 5/2002
- EP 0880938 12/2003

(Continued)

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(57) **CLAIM**

The ornamental design for an intervertebral implant, substantially as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an intervertebral implant showing our new design;

FIG. 2 is a top view thereof;

FIG. 3 is a side view thereof;

FIG. 4 is an end view thereof;

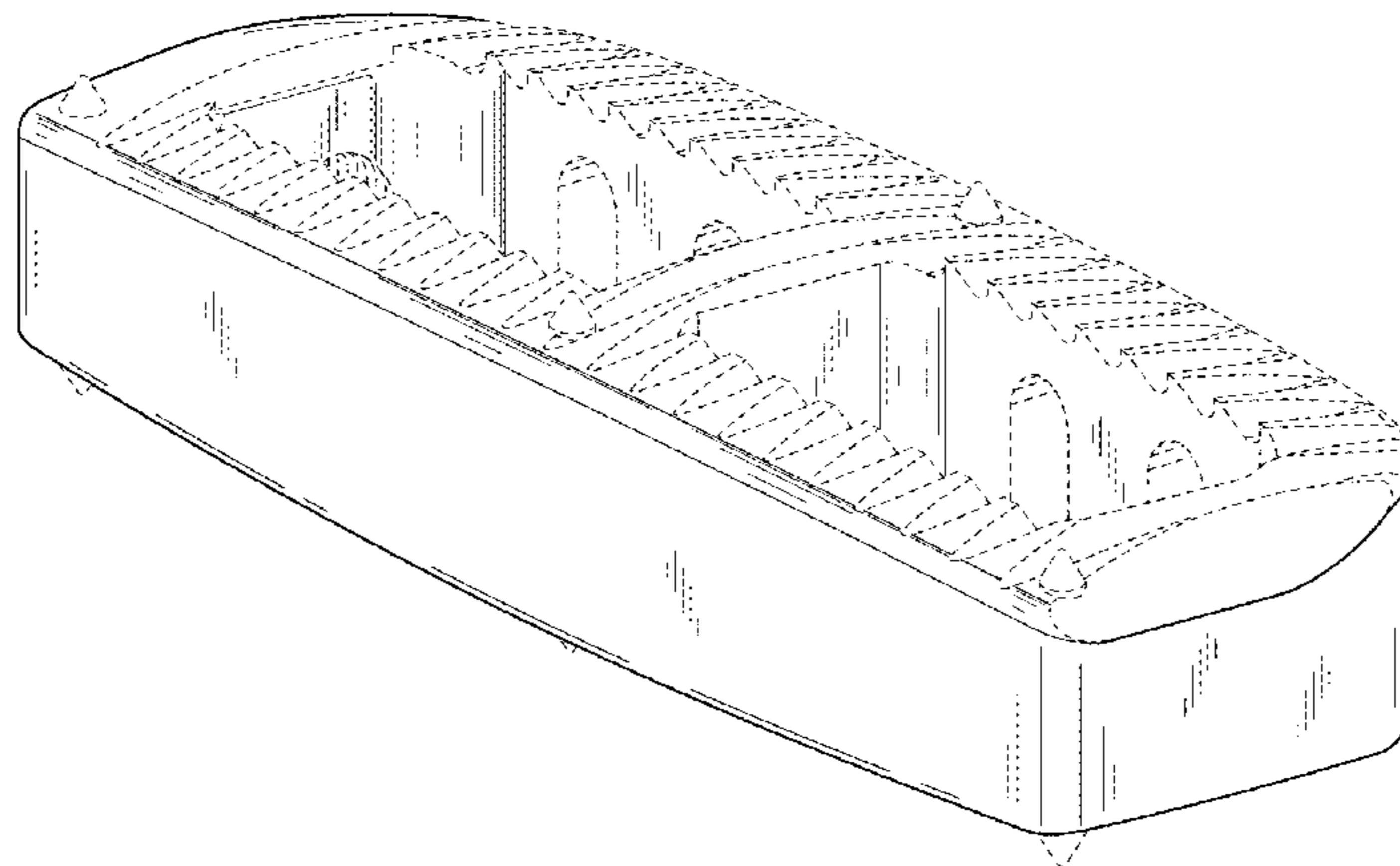
FIG. 5 is a perspective side view thereof;

FIG. 6 is a perspective side view thereof; and,

FIG. 7 is a perspective end view thereof.

The broken line showing is included for the purpose of illustrating environment and forms no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,263,953 A	11/1993	Bagby	6,120,503 A	9/2000	Michelson	
5,290,494 A	3/1994	Coombes	6,120,506 A	9/2000	Kohrs	
5,306,307 A	4/1994	Senter	6,143,033 A	11/2000	Paul	
5,306,309 A	4/1994	Wagner	6,159,211 A	12/2000	Borioni	
5,364,400 A	11/1994	Rego	6,159,215 A	12/2000	Camino	
5,397,364 A	3/1995	Kozak	6,193,756 B1	2/2001	Studer	
5,405,391 A	4/1995	Hednerson	6,200,347 B1	3/2001	Anderson	
5,413,602 A	5/1995	Metz-Stavenhagen	6,224,607 B1	5/2001	Michelson	
5,425,772 A	6/1995	Brantigan	6,224,631 B1	5/2001	Kohrs	
5,431,658 A	7/1995	Moskovich	6,235,059 B1	5/2001	Benezech	
5,443,514 A	8/1995	Steffee	6,241,769 B1	6/2001	Nicholson	
5,443,515 A	8/1995	Cohen	6,241,771 B1	6/2001	Gresser	
5,454,811 A	10/1995	Huebner	6,245,108 B1 *	6/2001	Biscup	A61F 2/4455 606/246
5,458,638 A	10/1995	Kuslich	6,251,140 B1	6/2001	Marino	
5,484,437 A	1/1996	Michelson	6,258,125 B1	7/2001	Paul	
5,489,307 A	2/1996	Kuslich	6,277,149 B1	8/2001	Boyle	
5,489,308 A	2/1996	Kuslich	6,319,257 B1	11/2001	Carignan	
5,514,180 A	5/1996	Heggeness	6,325,827 B1	12/2001	Lin	
5,522,899 A	6/1996	Michelson	6,371,989 B1	4/2002	Chauvin	
5,534,030 A	7/1996	Navarro	6,383,221 B1	5/2002	Scarborough	
5,540,688 A	7/1996	Navas	6,409,766 B1	6/2002	Brett	
5,562,736 A	10/1996	Ray	6,423,095 B1	7/2002	Van Hoeck	
5,571,190 A	11/1996	Ulrich	6,432,140 B1	8/2002	Lin	
5,571,192 A	11/1996	Schonhoffer	6,440,142 B1	8/2002	Ralph	
5,593,409 A	1/1997	Michelson	6,442,814 B1	9/2002	Landry	
5,609,636 A	3/1997	Kohrs	6,454,806 B1	9/2002	Cohen	
5,611,800 A	3/1997	Davis	6,468,311 B2	10/2002	Boyd	
5,632,747 A	5/1997	Scarborough	6,485,518 B1	11/2002	Cornwall	
5,645,598 A	7/1997	Brosnahan	6,491,724 B1	12/2002	Ferree	
5,653,761 A	8/1997	Pisharodi	6,503,279 B1	1/2003	Webb	
5,653,762 A	8/1997	Pisharodi	6,527,773 B1	3/2003	Lin	
5,665,122 A	9/1997	Kambin	D472,633 S	4/2003	Anderson	
5,669,909 A	9/1997	Zdeblick	D472,634 S	4/2003	Anderson	
5,676,703 A	10/1997	Gelbard	D473,650 S	4/2003	Anderson	
5,683,394 A	11/1997	Rinner	6,595,998 B2	7/2003	Johnson	
5,683,464 A	11/1997	Wagner	6,626,905 B1	9/2003	Schmiel	
5,700,264 A	12/1997	Zucherman	6,635,086 B2	10/2003	Lin	
5,700,291 A	12/1997	Kuslich	6,648,895 B2	11/2003	Burkus	
5,700,292 A	12/1997	Margulies	6,676,703 B2	1/2004	Biscup	
5,702,449 A	12/1997	McKay	6,706,067 B2	3/2004	Shimp	
5,702,451 A	12/1997	Biedermann	6,743,255 B2	6/2004	Ferree	
5,702,453 A	12/1997	Rabbe	6,746,454 B2	6/2004	Winterbottom	
5,702,454 A	12/1997	Baumgartner	6,746,484 B1	6/2004	Liu	
5,702,455 A	12/1997	Saggar	6,755,841 B2	6/2004	Fraser	
5,716,415 A	2/1998	Steffee	D493,533 S	7/2004	Blain	
5,728,159 A	3/1998	Stroeve	6,824,564 B2	11/2004	Crozet	
5,741,253 A	4/1998	Michelson	6,855,167 B2	2/2005	Shimp	
5,741,261 A	4/1998	Moskovitz	D503,801 S	4/2005	Jackson	
5,766,252 A	6/1998	Henry	6,942,698 B1	9/2005	Jackson	
5,772,661 A	6/1998	Michelson	6,964,687 B1	11/2005	Bernard	
5,782,830 A	7/1998	Farris	6,979,353 B2	12/2005	Bresina	
5,782,832 A	7/1998	Larsen	6,984,245 B2	1/2006	McGahan	
5,785,710 A	7/1998	Michelson	6,986,788 B2	1/2006	Paul	
5,797,909 A	8/1998	Michelson	6,989,031 B2	1/2006	Michelson	
5,800,550 A	9/1998	Sertich	7,018,416 B2	3/2006	Hanson	
5,814,084 A	9/1998	Grivas	D524,443 S	7/2006	Blain	
5,860,973 A	1/1999	Michelson	D524,942 S	7/2006	Felix	
5,865,845 A	2/1999	Thalgott	7,077,866 B2	7/2006	Gresser	
5,865,848 A	2/1999	Baker	D530,423 S	10/2006	Miles	
5,885,299 A	3/1999	Winslow	7,125,425 B2	10/2006	Foley	
5,888,224 A	3/1999	Beckers	D533,277 S	12/2006	Blain	
5,888,228 A	3/1999	Knothe	7,192,447 B2	3/2007	Rhoda	
5,904,719 A	5/1999	Errico	7,195,643 B2	3/2007	Jackson	
5,910,315 A	6/1999	Stevenson	D541,940 S	5/2007	Blain	
5,968,098 A	10/1999	Winslow	7,244,258 B2	7/2007	Burkus	
6,004,326 A	12/1999	Castro	7,303,583 B1	12/2007	Schär	
6,008,433 A	12/1999	Stone	7,326,251 B2	2/2008	McCombe	
6,015,436 A	1/2000	Schonhoffer	D564,095 S	3/2008	Blain	
6,039,761 A	3/2000	Li	D566,276 S	4/2008	Blain	
6,042,582 A	3/2000	Ray	D594,986 S	6/2009	Miles	
6,045,580 A	4/2000	Scarborough	D599,019 S	8/2009	Pimenta	
6,048,342 A	4/2000	Zucherman	D620,113 S	7/2010	Courtney	
6,059,829 A	5/2000	Schläpfer	D621,509 S	8/2010	Lovell	
6,063,088 A	5/2000	Winslow	D625,820 S	10/2010	Calverley	
6,083,225 A	7/2000	Winslow	D627,467 S	11/2010	Pannu	
			D629,104 S	12/2010	Calverley	
			D629,108 S	12/2010	Richter	
			D630,749 S	1/2011	Tornier	

(56)

References Cited

U.S. PATENT DOCUMENTS

7,867,277 B1 1/2011 Tohmeh
 7,951,203 B2 5/2011 McCombe
 8,021,430 B2 9/2011 Michelson
 8,187,334 B2 5/2012 Curran
 8,246,686 B1 8/2012 Curran
 8,251,997 B2 8/2012 Michelson
 D671,645 S 11/2012 Curran
 D674,092 S 1/2013 Lovell
 D675,320 S 1/2013 Oi
 8,361,156 B2 1/2013 Curran
 8,506,636 B2 8/2013 Dye
 8,562,685 B2* 10/2013 Ullrich, Jr. A61F 2/442
 623/17.11
 8,574,301 B2 11/2013 Curran
 8,579,909 B2 11/2013 Burkus
 8,591,589 B2 11/2013 McCombe
 D696,402 S 12/2013 Oi
 8,608,804 B2 12/2013 Curran
 D700,332 S* 2/2014 Tyber D24/155
 8,758,443 B2* 6/2014 Ullrich, Jr. A61F 2/4465
 623/17.11

D708,747 S* 7/2014 Curran D24/155
 D711,537 S 8/2014 Pimenta
 8,845,727 B2* 9/2014 Gottlieb A61F 2/442
 623/17.11
 D721,808 S* 1/2015 Oi D24/155
 D724,213 S* 3/2015 Tyber D24/155
 8,992,622 B2* 3/2015 Ullrich, Jr. A61F 2/447
 623/17.11
 D735,336 S* 7/2015 Lovell D24/155
 2003/0109928 A1 6/2003 Pasquet
 2003/0125739 A1* 7/2003 Bagga A61F 2/442
 606/247
 2006/0100705 A1* 5/2006 Puno A61F 2/30771
 623/17.11
 2007/0293948 A1 12/2007 Bagga

FOREIGN PATENT DOCUMENTS

WO WO-9404100 3/1994
 WO WO-9501810 1/1995
 WO WO-9608205 3/1996
 WO WO-9733525 9/1997
 WO WO-9817208 4/1998

* cited by examiner

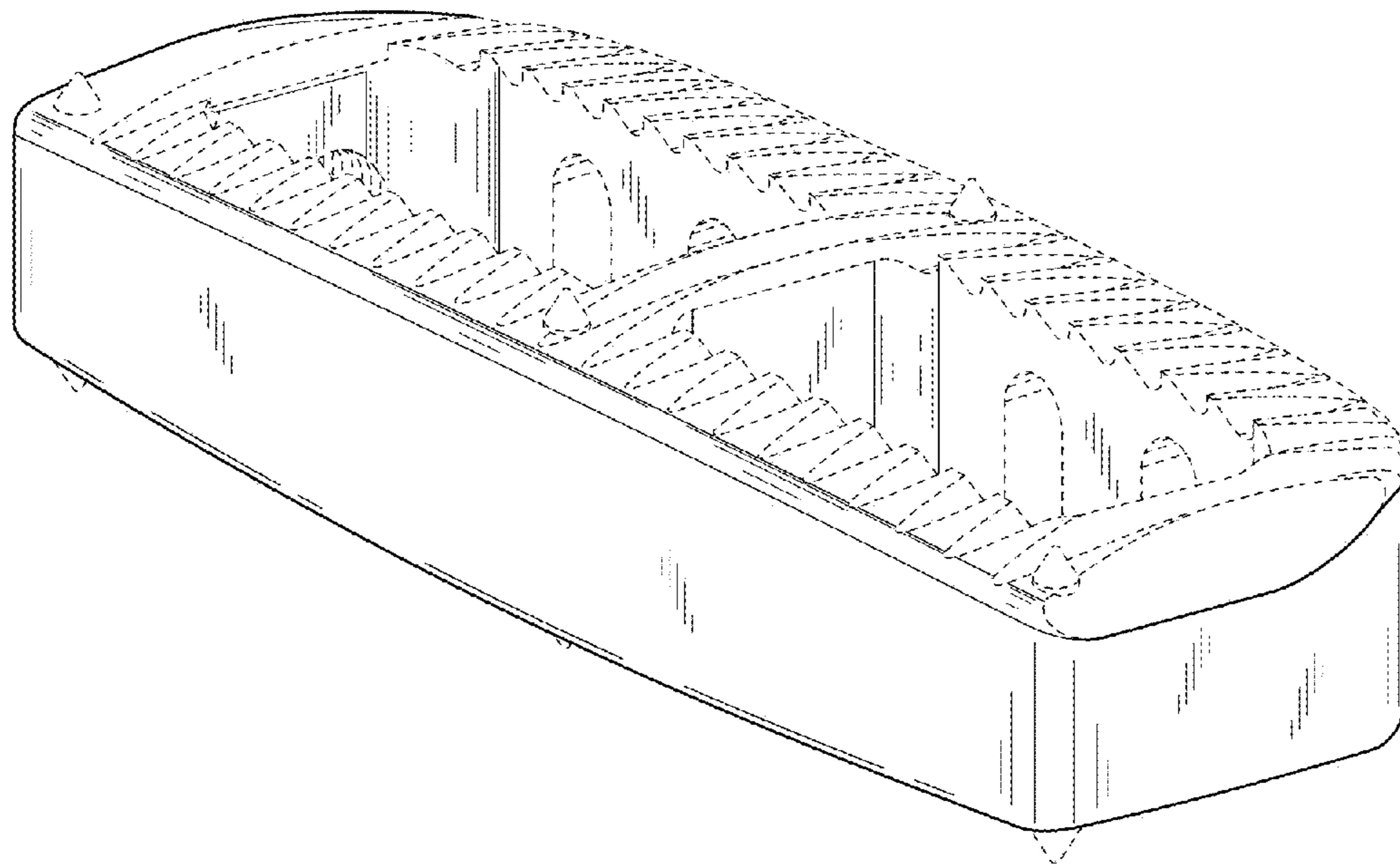


FIG. 1

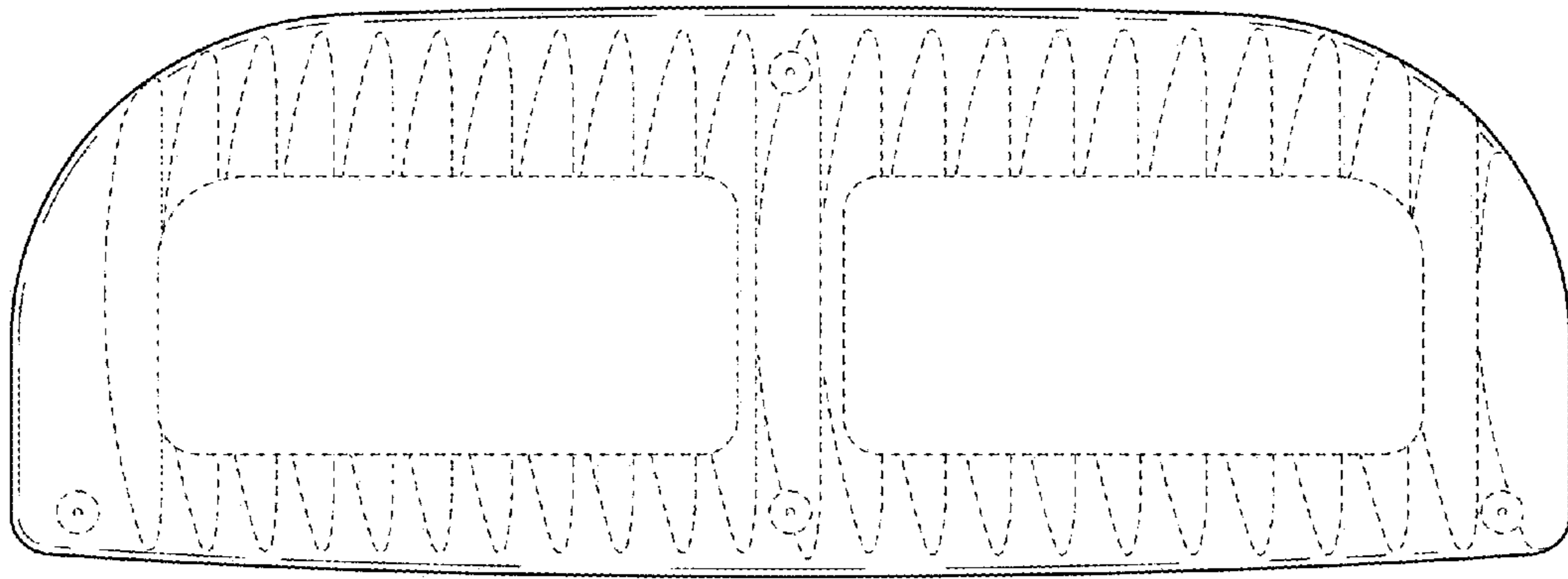


FIG. 2

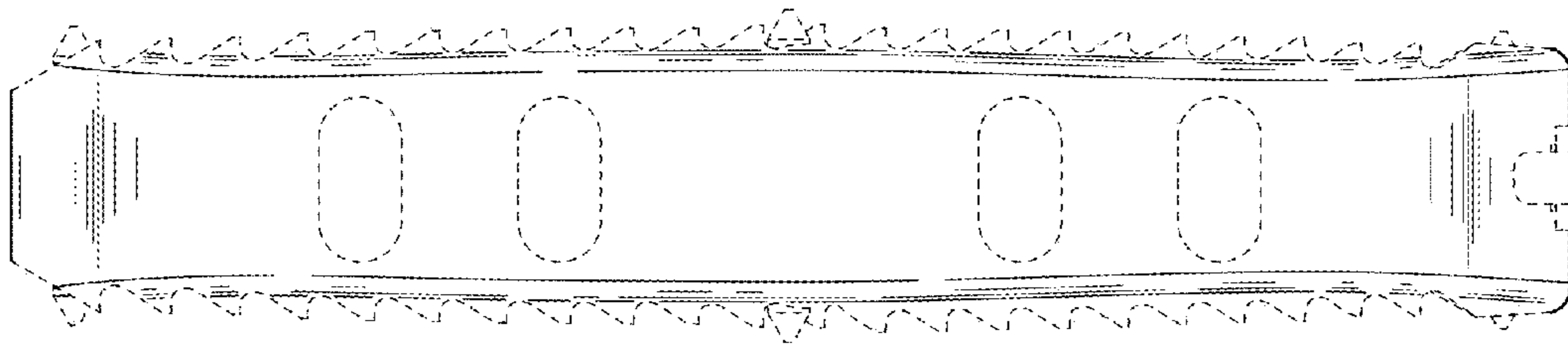


FIG. 3

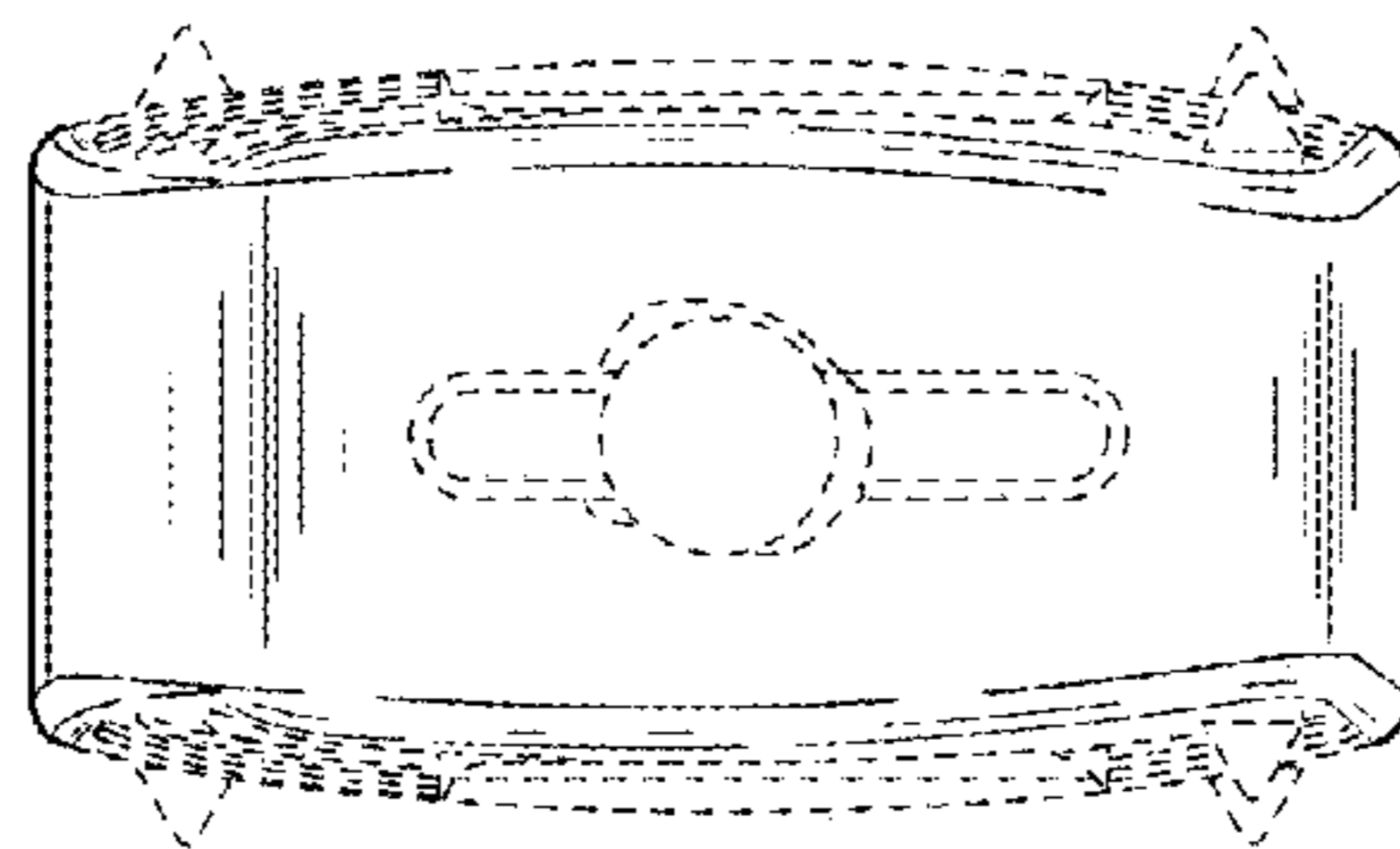


FIG. 4

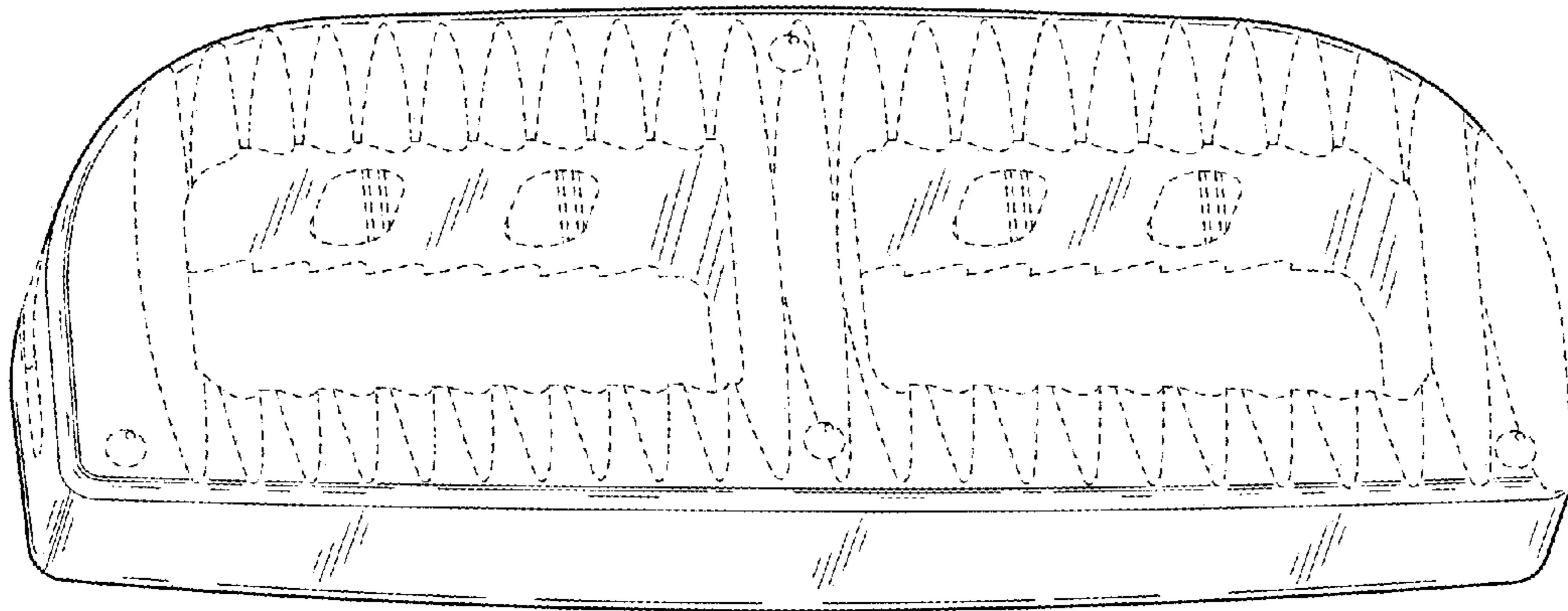


FIG. 5

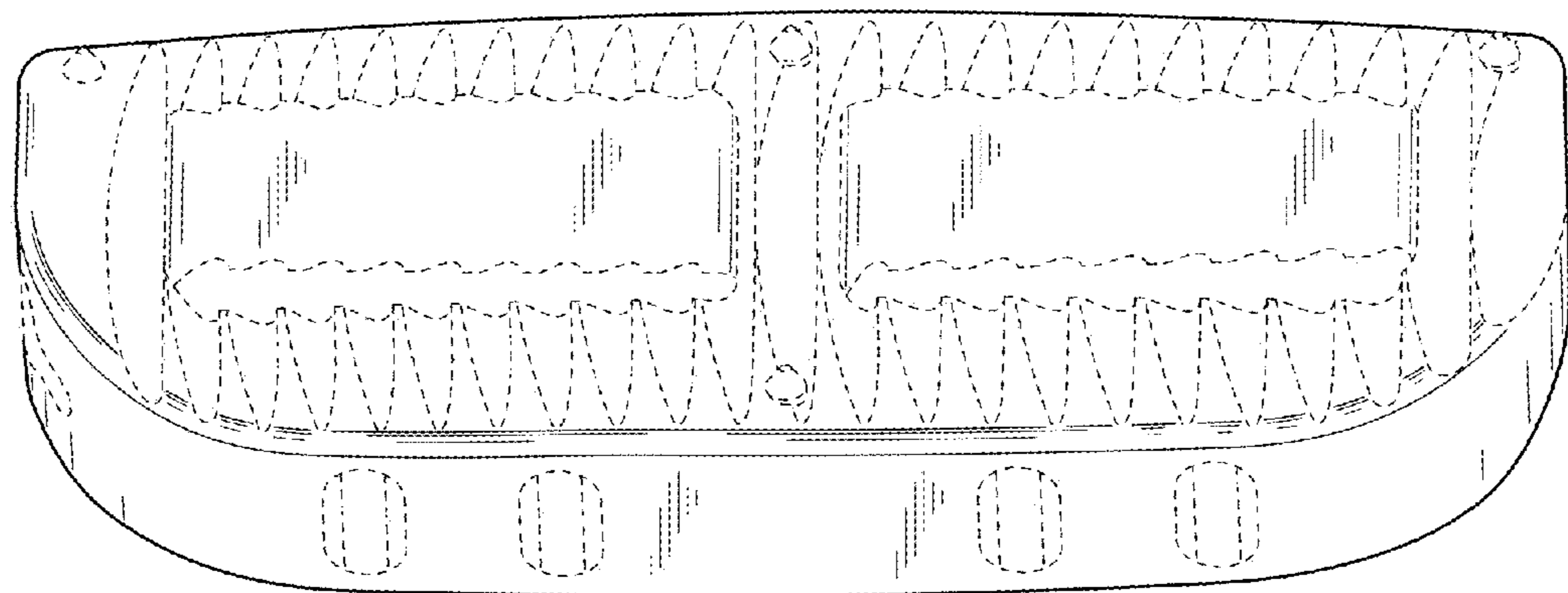


FIG. 6

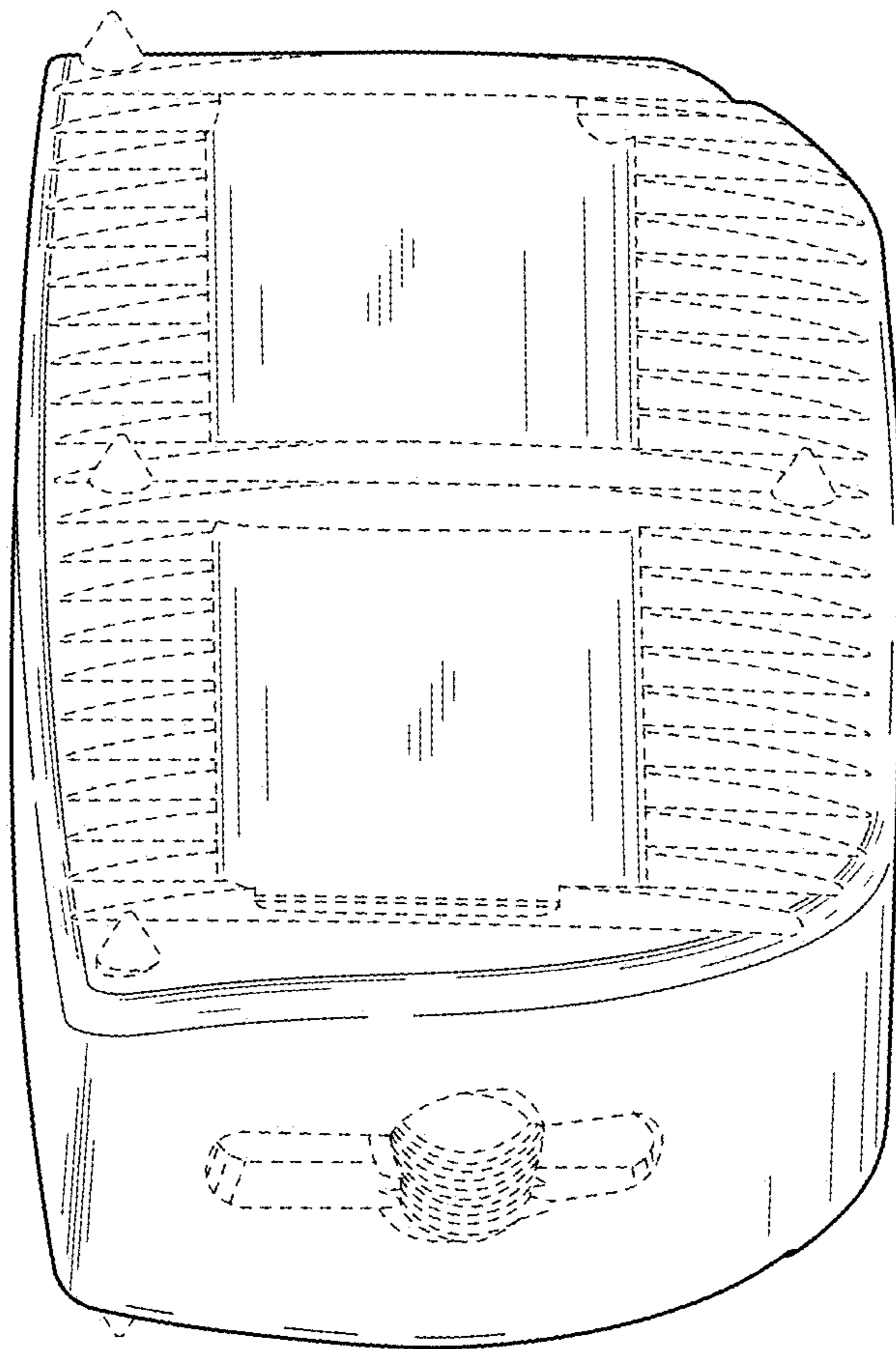


FIG. 7