



US00D854890S

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

(10) **Patent No.:** **US D854,890 S**
(45) **Date of Patent:** **** Jul. 30, 2019**

(54) **SUPERCOOLED BEVERAGE
CRYSTALLIZATION SLUSH DEVICE WITH
ILLUMINATION**

FOREIGN PATENT DOCUMENTS

GB 2391219 2/2004
JP 0898675 4/1996

(71) Applicant: **Supercooler Technologies, Inc.**,
Maitland, FL (US)

(Continued)

(72) Inventor: **Douglas Shuntich**, Maitland, FL (US)

OTHER PUBLICATIONS

(73) Assignee: **Supercooler Technologies, Inc.**,
Maitland, FL (US)

Shields, New Refrigeration Tech Cools Drink in 45 seconds, Food
& Drink International, 2014, www.fdiforum.net, 3 pages.

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

(Continued)

(21) Appl. No.: **29/646,208**

Primary Examiner — Marianne N Pandozzi

(22) Filed: **May 2, 2018**

(74) *Attorney, Agent, or Firm* — Brian S. Steinberger;
Law Offices of Brian S. Steinberger, P.A.

Related U.S. Application Data

(57) **CLAIM**

(62) Division of application No. 29/593,780, filed on Feb.
13, 2017, now Pat. No. Des. 837,612, which is a
(Continued)

The ornamental design for a supercooled beverage crystal-
lization slush device with illumination, as shown and
described.

(51) **LOC (11) Cl.** **07-02**

DESCRIPTION

(52) **U.S. Cl.**
USPC **D7/619.1; D7/300; D7/396.2**

(58) **Field of Classification Search**
USPC D7/300, 309-311, 306-308, 305, 397,
D7/387, 388, 399, 355, 362, 365, 367,
D7/619.1, 624.1, 396.2; 222/146.6,
222/185.1, 135, 129.3, 129.1; 99/295,
99/273, 304, 288, 279, 307, 283, 318,
99/300, 275; D21/371, 370; 362/101;
62/457.4

FIG. 1 is an upper front left perspective view of the novel
supercooled beverage crystallization slush device with illu-
mination;
FIG. 2 is an upper front right perspective view of the slush
device of FIG. 1;
FIG. 3 is an upper rear left perspective view of the slush
device of FIG. 1;
FIG. 4 is an upper rear right perspective view of the slush
device of FIG. 1;
FIG. 5 is a front view of the slush device of FIG. 1;
FIG. 6 is a rear view of the slush device of FIG. 1;
FIG. 7 is a left side view of the slush device of FIG. 1;
FIG. 8 is a right side view of the slush device of FIG. 1;
FIG. 9 is a top view of the slush device of FIG. 1; and,
FIG. 10 is a bottom view of the slush device of FIG. 1.

(Continued)

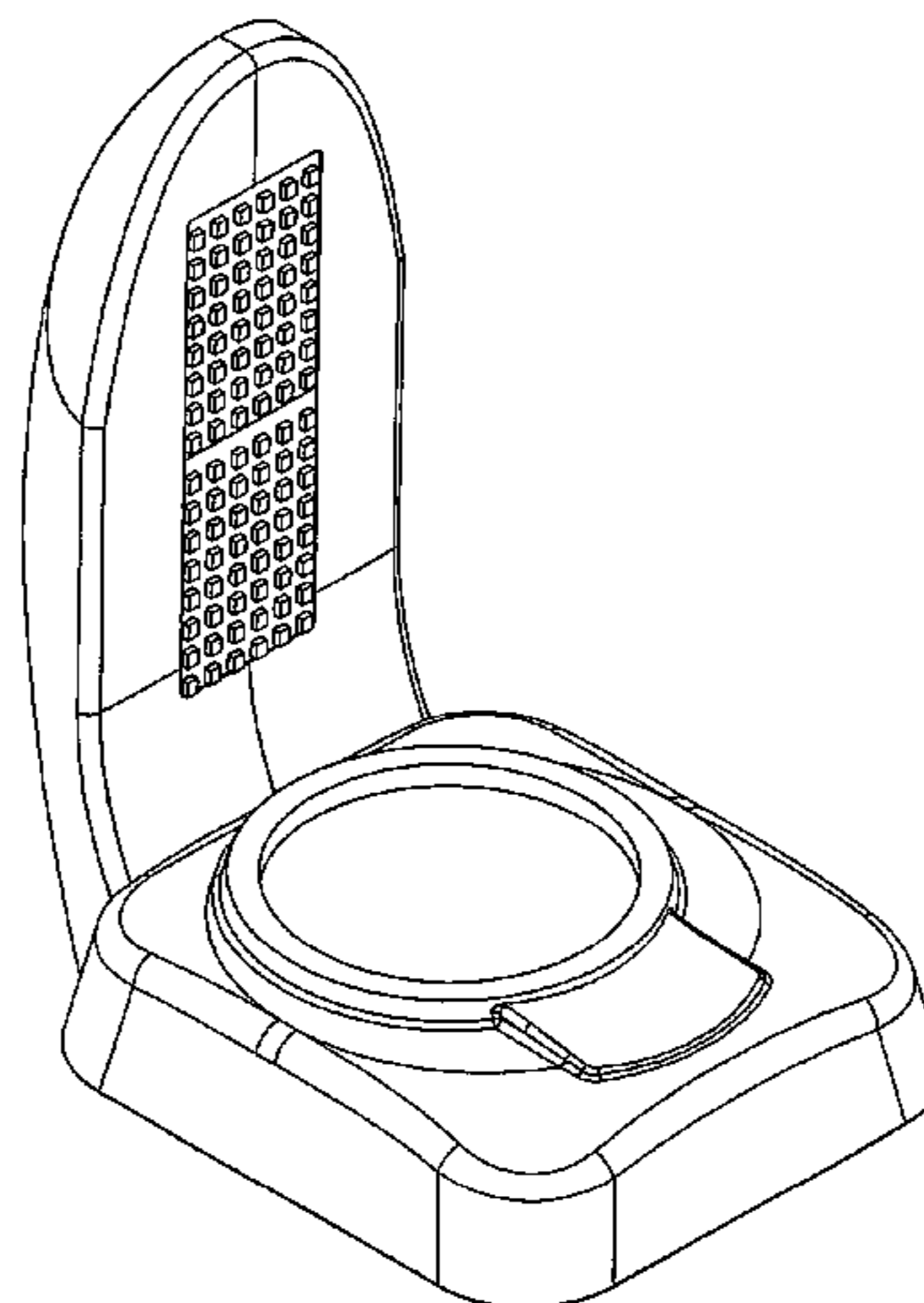
(56) **References Cited**

U.S. PATENT DOCUMENTS

136,632 A 3/1873 Whipple
714,415 A 11/1902 Trafford

(Continued)

1 Claim, 10 Drawing Sheets



Related U.S. Application Data

division of application No. 29/528,365, filed on May 28, 2015, now Pat. No. Des. 778,687.

(58) **Field of Classification Search**

CPC A47J 31/46; A47J 31/407; A47J 31/50; A47J 31/18; A47J 31/00; A47J 27/04; A47J 31/0573; A47J 31/52; B67D 1/0085; B67D 2001/0089; G07F 13/065; F25D 3/08; F25D 2400/28

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,827,856 A 10/1931 Pope
 1,854,731 A 4/1932 Beran
 1,984,047 A 12/1934 Thieme
 2,061,427 A 11/1936 King
 2,073,176 A 3/1937 Quinn
 2,094,774 A 10/1937 Dawson
 2,289,645 A 7/1942 Geistert
 2,314,586 A 3/1943 Levison
 2,405,091 A 7/1946 Culbreth
 2,446,614 A 8/1948 Sherick
 2,629,229 A 2/1953 Hull
 2,736,174 A 2/1956 Tice
 2,764,489 A 9/1956 Veazey
 2,990,624 A 7/1961 Granath
 3,065,553 A 11/1962 Olin
 D198,488 S * 6/1964 Reis D19/75
 3,284,991 A 11/1966 Ploeger
 3,401,858 A * 9/1968 White A47G 19/06
 206/561
 3,434,410 A 3/1969 Galle
 3,453,083 A 7/1969 Beerli
 3,718,485 A 2/1973 Lankford
 3,813,928 A 6/1974 Anderson
 3,860,166 A 1/1975 Anderson
 3,915,285 A 10/1975 Lindquist
 3,987,211 A 10/1976 Dunn
 4,023,947 A 5/1977 Ferry
 4,132,186 A 1/1979 Manske et al.
 4,142,372 A 3/1979 Kato et al.
 4,164,851 A 8/1979 Bryant
 4,172,365 A 10/1979 McClintock
 4,336,574 A * 6/1982 Goodman A47G 23/0309
 248/346.11
 4,358,932 A 11/1982 Helfrich, Jr.
 4,358,934 A 11/1982 Vankirk
 4,457,214 A 7/1984 Devries
 4,493,156 A 1/1985 Siegmann
 4,549,409 A 10/1985 Smith
 4,580,405 A 4/1986 Cretzmeyer, III
 D293,758 S * 1/1988 Balisteri D7/300
 4,736,600 A 4/1988 Brown
 4,785,959 A * 11/1988 Kleiner A47G 23/0225
 206/217
 4,825,665 A 5/1989 Micallef
 4,954,465 A 9/1990 Kawashima et al.
 4,961,322 A 10/1990 Oguma et al.
 4,979,994 A 12/1990 Dussault
 5,144,816 A 9/1992 Chase
 5,240,177 A 8/1993 Muramatsu et al.
 5,269,156 A 12/1993 Van De Velde
 5,282,368 A 2/1994 Ordoukhanian
 5,388,427 A 2/1995 Lee
 5,477,623 A 12/1995 Tomizawa
 5,505,054 A 4/1996 Loibl
 5,653,123 A 8/1997 Handlin
 5,695,795 A 12/1997 Murray
 D392,514 S * 3/1998 Steinfels D7/624.1
 5,901,564 A 5/1999 Comeau, II
 5,939,120 A 8/1999 Bogue
 5,964,101 A 10/1999 Schulak et al.
 5,966,964 A 10/1999 Pattee

6,116,042 A 9/2000 Purdum
 6,146,600 A 11/2000 Williamson
 6,253,559 B1 7/2001 Kinkel et al.
 6,272,867 B1 8/2001 Barrash et al.
 D449,763 S * 10/2001 Harris, Jr. D7/307
 6,314,751 B1 11/2001 Gjersvik
 D455,607 S * 4/2002 Johnson D7/387
 6,408,634 B1 6/2002 Choi
 6,413,444 B1 7/2002 Kasza
 6,543,154 B2 4/2003 Horigane
 6,662,574 B2 12/2003 Loibl
 6,691,530 B2 2/2004 Lee
 6,730,341 B2 5/2004 Ludwig
 6,904,761 B2 6/2005 Rafalovich et al.
 D508,719 S * 8/2005 de Haas D21/325
 6,945,069 B2 9/2005 Lee
 7,032,408 B2 4/2006 Dentella et al.
 D540,126 S * 4/2007 Leahy D6/368
 D552,417 S * 10/2007 Ben-Shlomo D7/387
 7,287,397 B2 10/2007 Coulter et al.
 7,296,422 B2 11/2007 Strohm et al.
 D569,692 S * 5/2008 Zell D7/387
 D574,128 S * 8/2008 Meiry D2/898
 7,520,212 B2 4/2009 Smith et al.
 D614,442 S * 4/2010 Smith D7/300
 7,703,295 B2 4/2010 Zangari et al.
 7,707,848 B2 5/2010 Loibl
 7,712,321 B2 5/2010 Kadyk
 7,874,167 B2 1/2011 Kammer
 7,934,384 B2 5/2011 Tuskiewicz et al.
 7,997,094 B2 8/2011 Zangari et al.
 D655,122 S * 3/2012 Bingul D7/306
 8,132,960 B2 3/2012 Zhuang
 8,225,620 B2 7/2012 Prentner
 8,250,881 B1 8/2012 Reihl
 8,434,317 B2 5/2013 Besore
 8,464,544 B2 6/2013 Shin
 8,534,085 B2 9/2013 Zangari et al.
 8,549,993 B2 10/2013 Foster
 8,572,990 B2 11/2013 Chung
 D705,607 S * 5/2014 Zorovich D7/523
 D707,497 S * 6/2014 Tello D7/620
 9,024,168 B2 5/2015 Peterson
 9,134,059 B2 9/2015 Chung
 9,234,697 B2 1/2016 Youn et al.
 D749,913 S * 2/2016 Feng D7/619.1
 D778,687 S * 2/2017 Shuntich D7/300
 9,631,856 B2 4/2017 Shuntich
 9,841,224 B2 12/2017 Hitzelberger et al.
 9,845,998 B2 12/2017 Shuntich
 D837,612 S * 1/2019 Shuntich D7/619.1
 2002/0124576 A1 9/2002 Loibl
 2003/0090890 A1 5/2003 Miozza et al.
 2003/0192435 A1 10/2003 McNair
 2004/0103552 A1 6/2004 Rhon
 2004/0112413 A1 6/2004 Brunner
 2004/0144103 A1 7/2004 Lee et al.
 2004/0237544 A1 12/2004 Ueno et al.
 2005/0142268 A1 6/2005 Scullion
 2005/0166768 A1 8/2005 Porat
 2005/0217282 A1 10/2005 Strohm et al.
 2006/0185372 A1 8/2006 Conde Hinojosa
 2006/0191086 A1 8/2006 Mourad
 2006/0225439 A1 10/2006 Morris, III
 2006/0248904 A1 11/2006 Ludwig
 2006/0260345 A1 11/2006 Coulter et al.
 2006/0260346 A1 11/2006 Coulter et al.
 2006/0260347 A1 11/2006 Coulter et al.
 2006/0260349 A1 11/2006 Coulter et al.
 2006/0260351 A1 11/2006 Coulter et al.
 2007/0137223 A1 6/2007 Brekke
 2007/0163289 A1 7/2007 Hahm
 2007/0204629 A1 9/2007 Lofy
 2008/0016886 A1 1/2008 Slate et al.
 2008/0134695 A1 6/2008 Loibl
 2008/0141701 A1 * 6/2008 Lewis F25D 3/08
 62/381
 2008/0148751 A1 6/2008 Swofford
 2008/0196443 A1 8/2008 Footer

(56)

References Cited

U.S. PATENT DOCUMENTS

2008/0302114 A1 12/2008 Kelly et al.
 2009/0314012 A1 12/2009 Lim
 2010/0058776 A1* 3/2010 Loibl F25D 31/007
 62/3.3
 2010/0133290 A1 6/2010 Luntz et al.
 2010/0154452 A1 6/2010 McCann
 2010/0162747 A1 7/2010 Hamel et al.
 2010/0205986 A1 8/2010 Chung et al.
 2010/0218510 A1 9/2010 Kim
 2010/0218514 A1 9/2010 Bertolini et al.
 2010/0218542 A1 9/2010 McCollough et al.
 2010/0293970 A1 11/2010 Mooijer et al.
 2011/0219805 A1 9/2011 Youn
 2011/0308264 A1 12/2011 Youn
 2012/0047922 A1 3/2012 Lee et al.
 2012/0085116 A1 4/2012 Maeng et al.
 2012/0106130 A1 5/2012 Beaudette
 2012/0137720 A1 6/2012 Ueda et al.
 2012/0266619 A1 10/2012 Shaw
 2013/0015753 A1 1/2013 Son et al.
 2013/0055744 A1 3/2013 Travers
 2013/0160987 A1 6/2013 Grigorian
 2013/0167582 A1 7/2013 Jones
 2013/0171920 A1 7/2013 Bhattacharya
 2013/0180280 A1 7/2013 Grigorian
 2013/0196044 A1 8/2013 Winston
 2013/0205809 A1 8/2013 Beni et al.
 2013/0241386 A1 9/2013 Kim et al.
 2013/0255304 A1 10/2013 Cur et al.
 2013/0305752 A1 11/2013 Martin
 2014/0123690 A1 5/2014 Hanley et al.
 2014/0125212 A1 5/2014 Choo et al.
 2014/0125577 A1 5/2014 Hoang
 2014/0216096 A1 8/2014 Leclear et al.
 2014/0346942 A1 11/2014 Kim et al.
 2014/0373567 A1 12/2014 Otsuki et al.
 2014/0375198 A1 12/2014 Jeon et al.
 2015/0059398 A1 3/2015 Yoo et al.
 2015/0068235 A1 3/2015 Travers
 2015/0102717 A1 4/2015 Furr et al.
 2015/0102718 A1 4/2015 Liu et al.
 2015/0112451 A1 4/2015 Dechev
 2015/0128483 A1 5/2015 Krupp et al.
 2015/0264968 A1* 9/2015 Shuntich A23G 9/045
 99/275

2016/0131421 A1* 5/2016 Bogaard F25D 3/08
 62/457.4
 2016/0209098 A1 7/2016 Kim
 2017/0353327 A1 12/2017 Doberstein et al.

FOREIGN PATENT DOCUMENTS

JP 2012153614 11/2012
 KR 1020080088944 10/2008
 KR 1020100018887 2/2010
 WO 0049347 8/2000
 WO 2010042662 4/2010

OTHER PUBLICATIONS

Ultrasonic Degassing and Defoaming of Liquids, Hielscher—
 Ultrasound Technology, 2015, 4 pages.
 Shuntich, D.J., PCT Serial No. PCT/US14/47214 filed Jul. 18, 2014,
 International Search Report and Written Opinion, dated Nov. 20,
 2014, 18 pages.
 Shuntich, Supercooler Technologies, Inc., PCT Application No.
 PCT/US2015/034418 filed Jun. 5, 2015, Notification of Transmittal
 of the International Search Report and the Written Opinion of the
 International Searching Authority, or the Declaration dated Sep. 14,
 2015, 15 pages.
 Shuntich, D.J., PCT Serial No. PCT/US14/47214, filed Aug. 4,
 2016, Notification Concerning Transmittal of the International
 Preliminary Report on Patent Ability (Chapter 1 of the Patent
 Cooperation Treaty) (PCT Rule 44bis.1 (c)), dated Aug. 4, 2016, 7
 pages.
 Shuntich, D.J., PCT Serial No. PCT/US2015/034418, filed Jun. 5,
 2015, Notification Concerning Transmittal of International Prelimi-
 nary Report on Patentability (Chapter I of the Patent Cooperation
 Treaty) (PCT Rule 44bis.1copyright), dated Dec. 15, 2016, 11
 pages.
 Shuntich, D.J., PCT Serial No. PCT/US2014047214, filed Aug. 19,
 2016, The partial supplementary European search report, dated Aug.
 18, 2017, 15 pages.
 Supercooler Technologies, Inc., European Serial No. 15803479.3
 filed Mar. 17, 2017, European Supplementary Search Report dated
 Apr. 4, 2017, 7 pages.
 Shuntich, D.J., U.S. Appl. No. 14/564,330, filed Dec. 9, 2014, Office
 Action Summary dated Apr. 13, 2018, 33 pages.
 Shuntich, Utility U.S. Appl. No. 14/552,448, filed Nov. 24, 2014,
 Office Action Summary dated Feb. 8, 2018, 46 pages.

* cited by examiner

FIG. 1

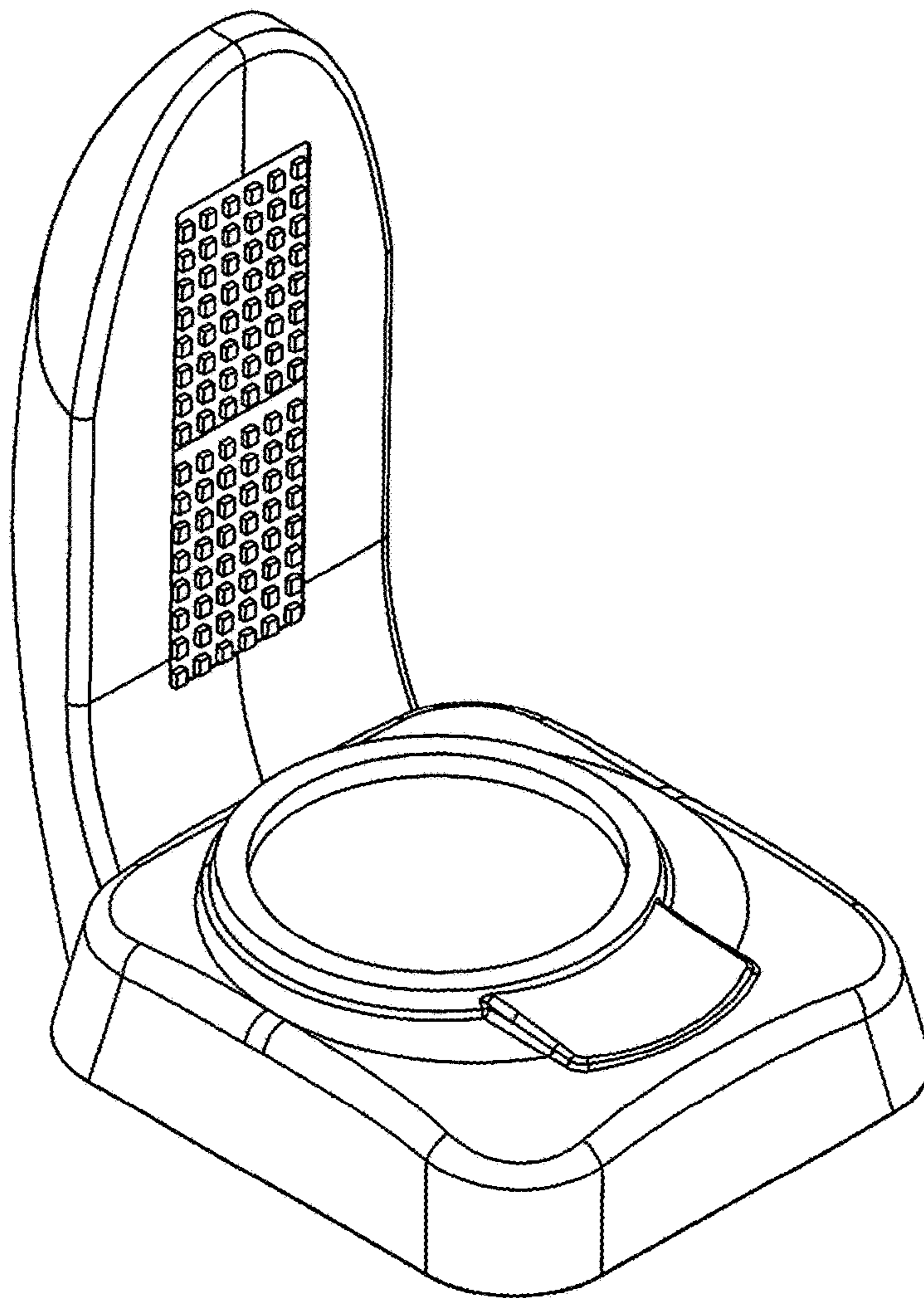


FIG. 2

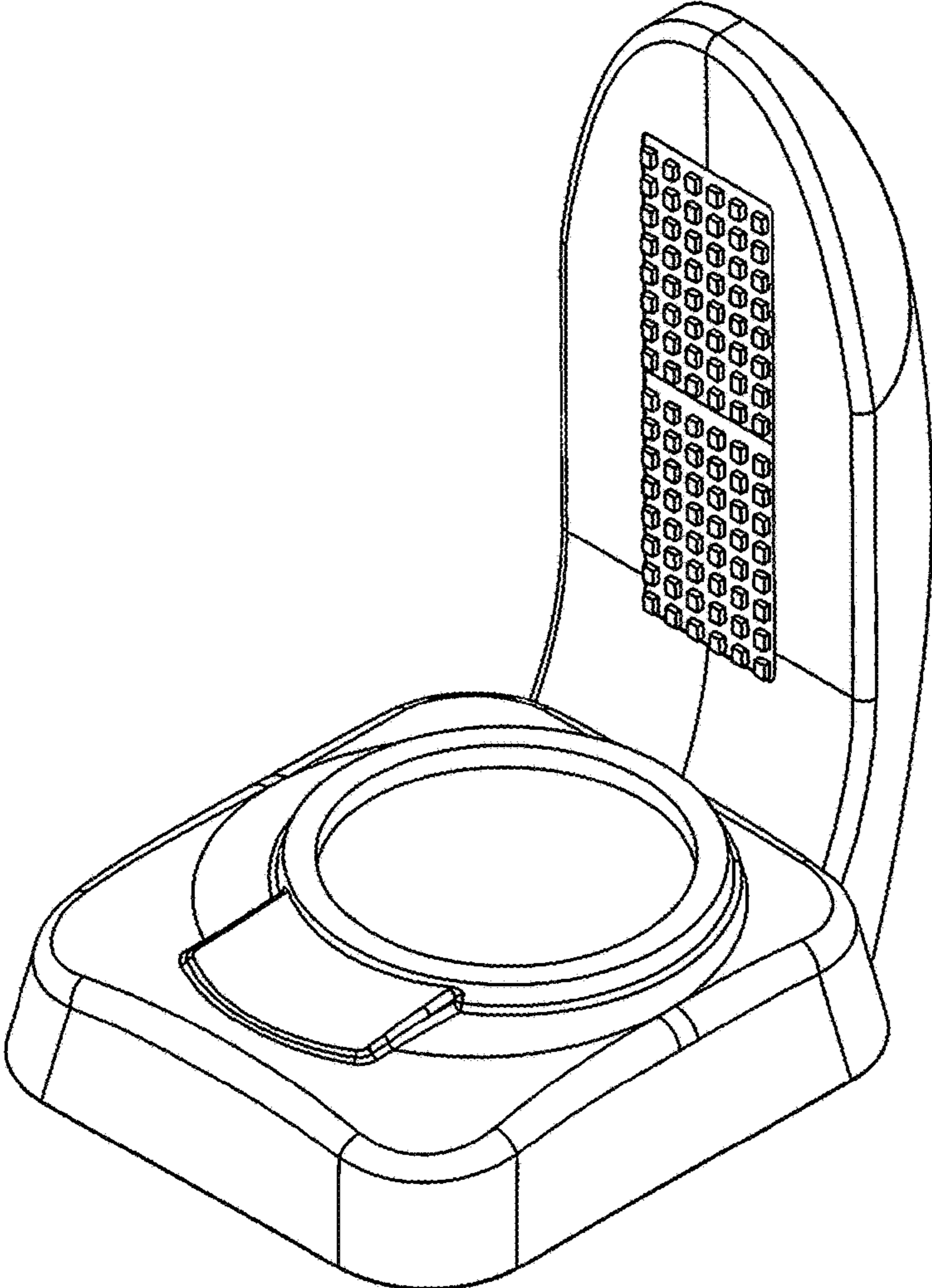


FIG. 3

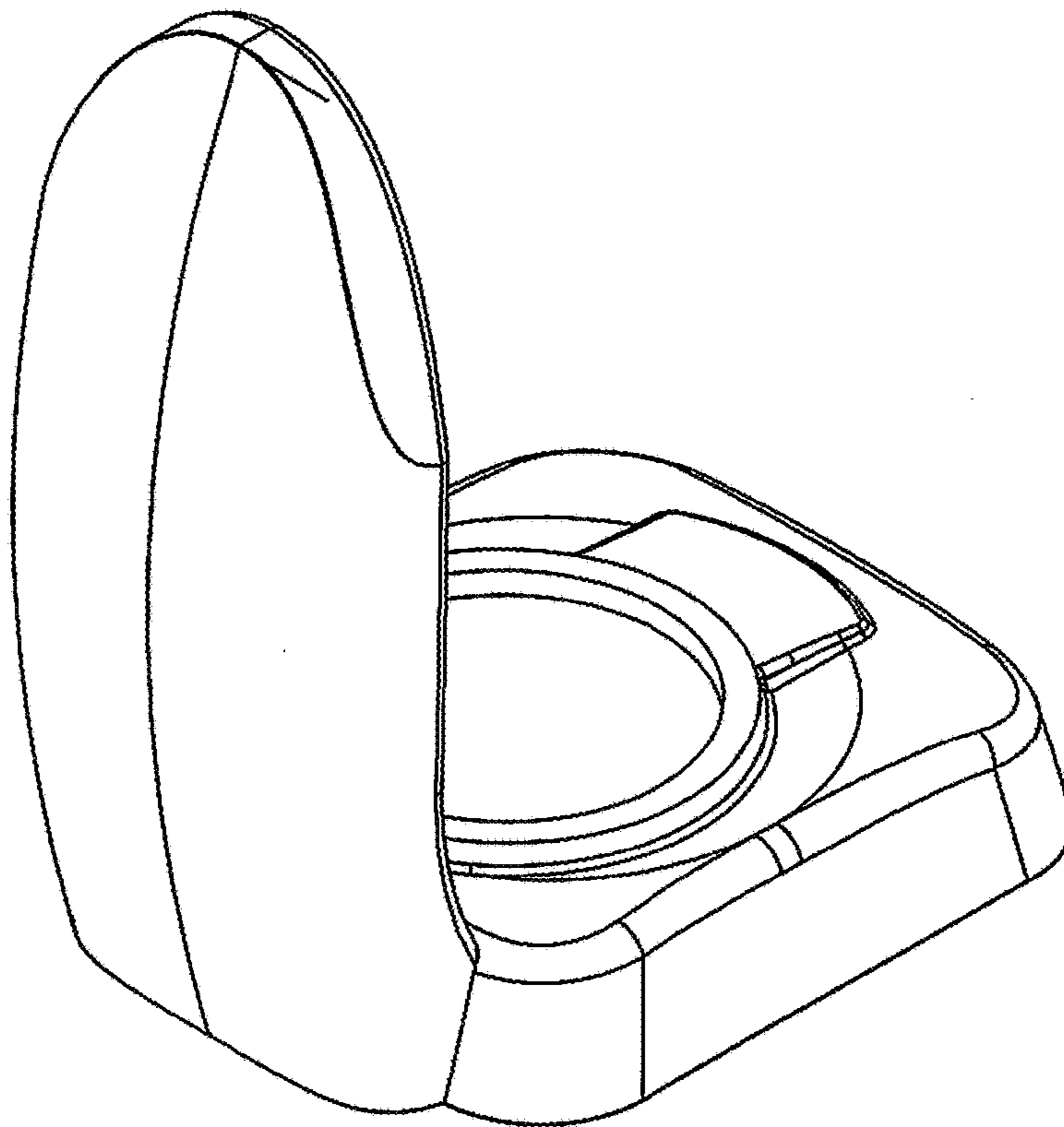


FIG. 4

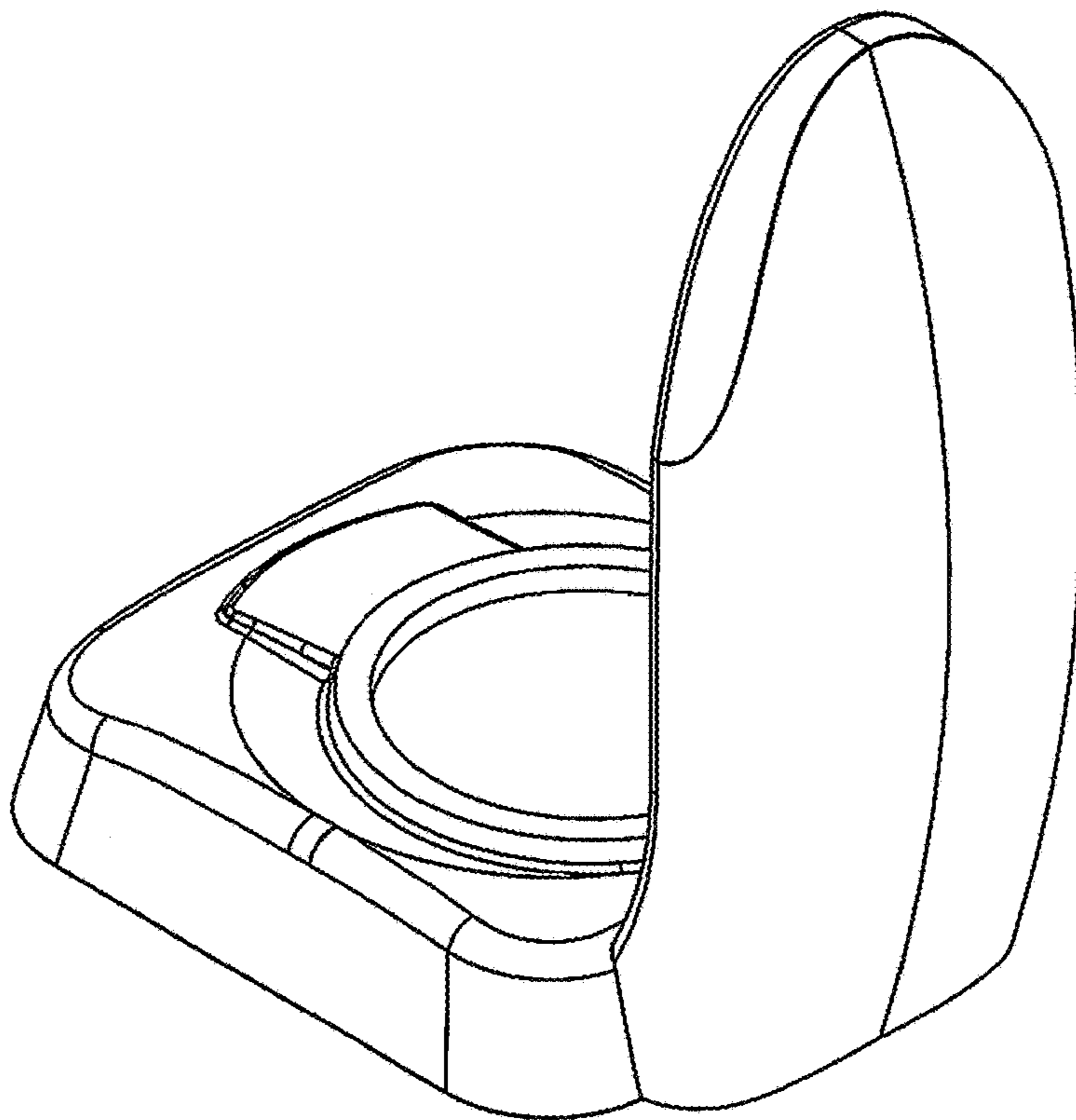


FIG. 5

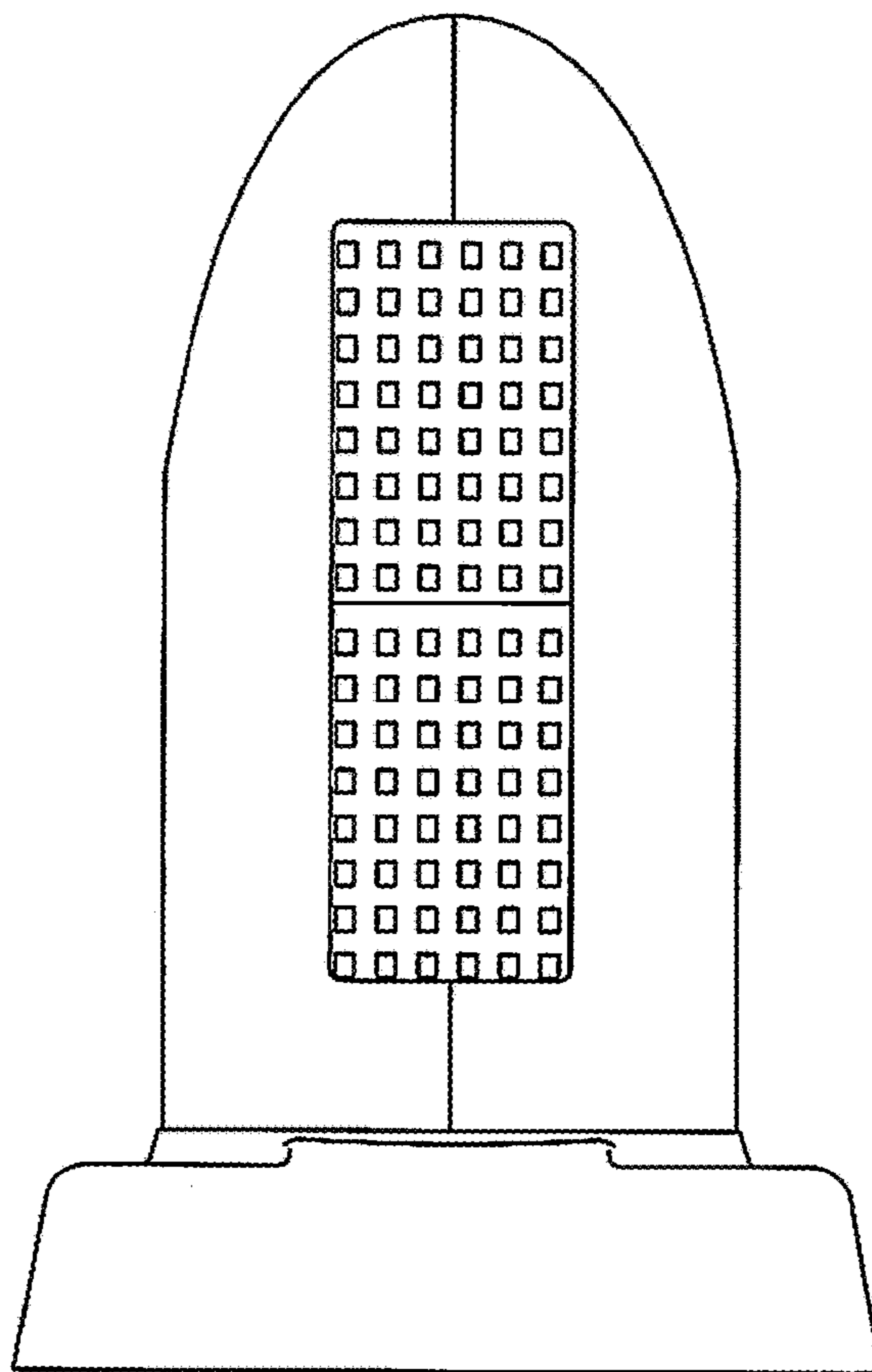


FIG. 6

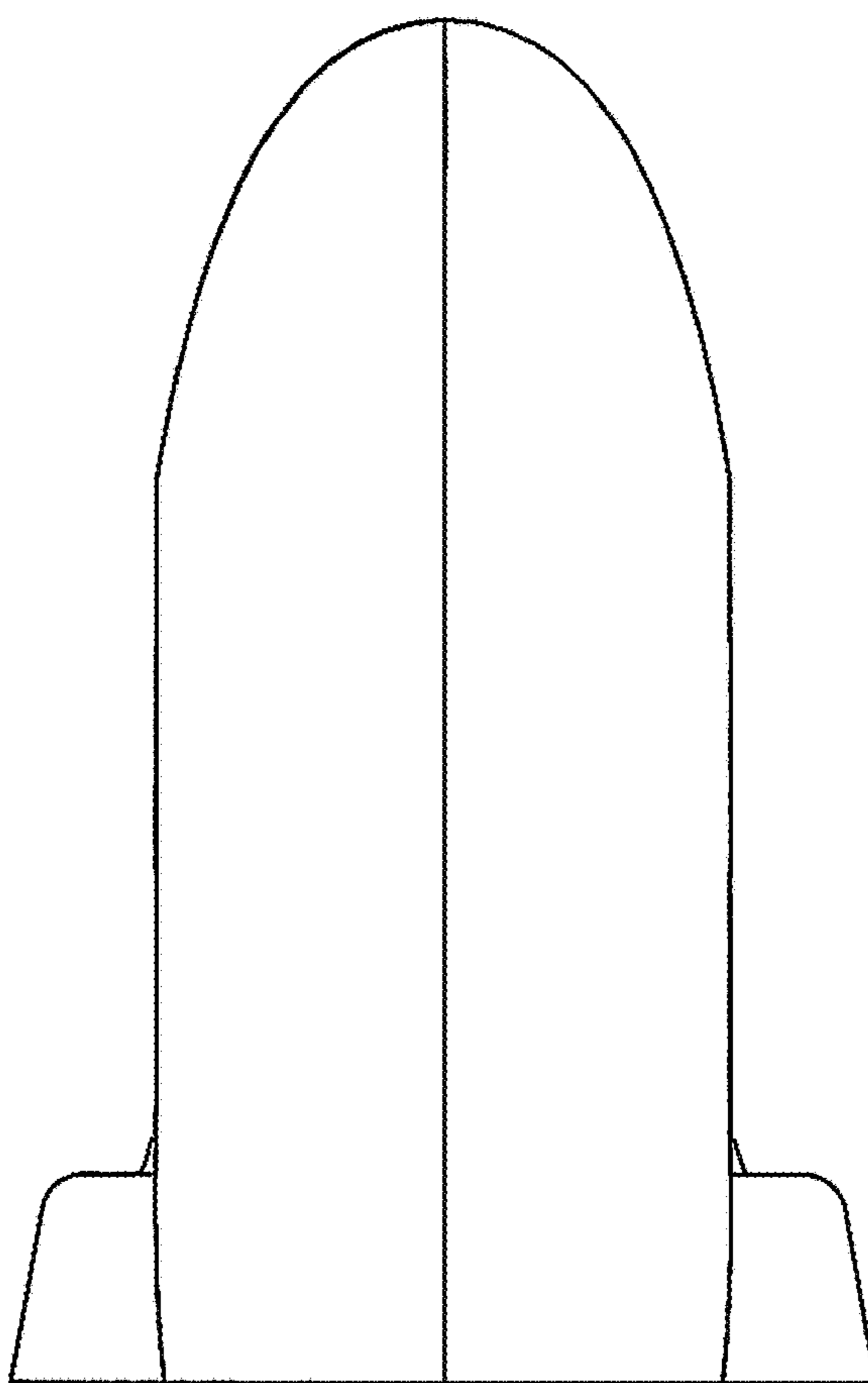


FIG. 7

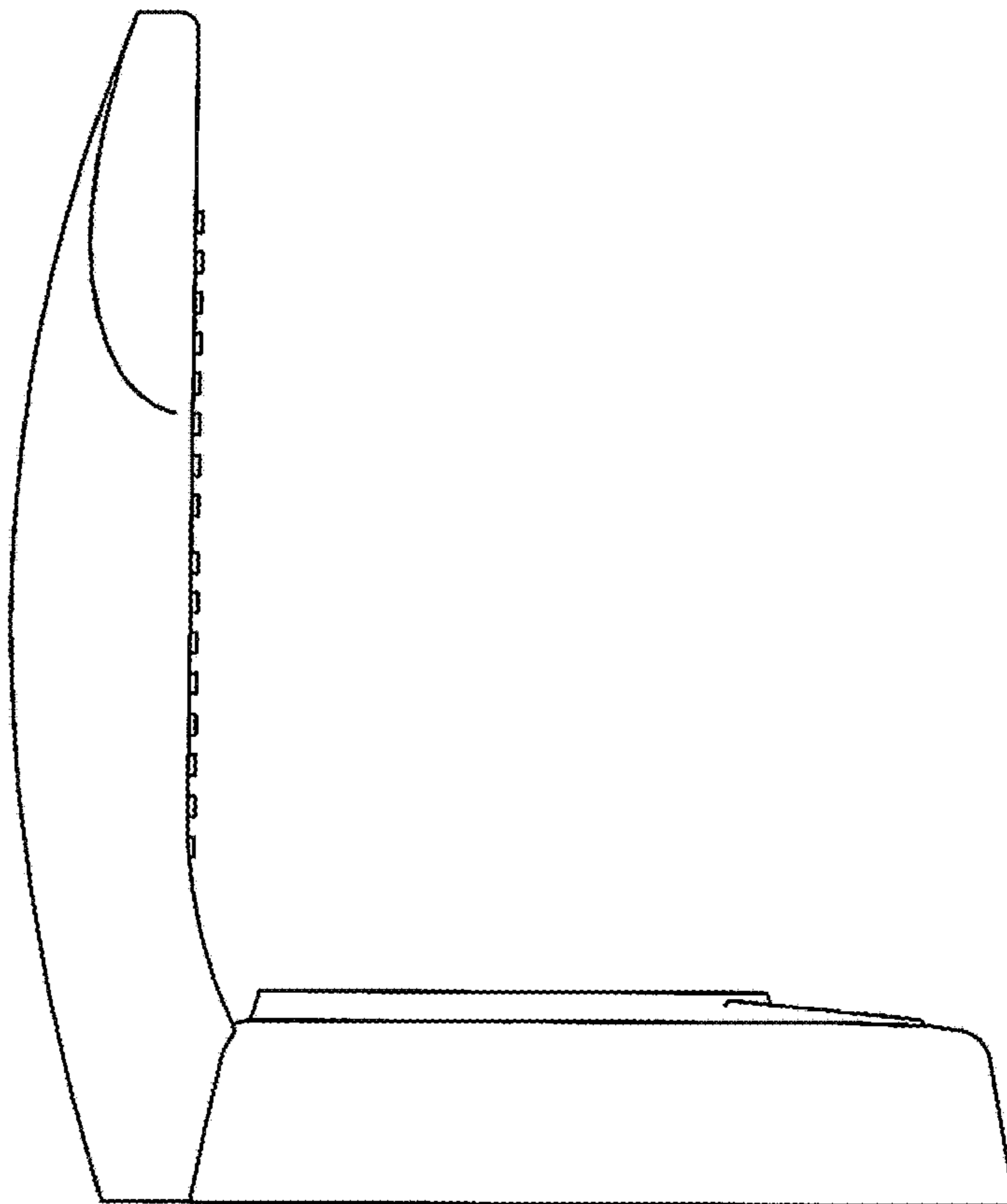


FIG. 8

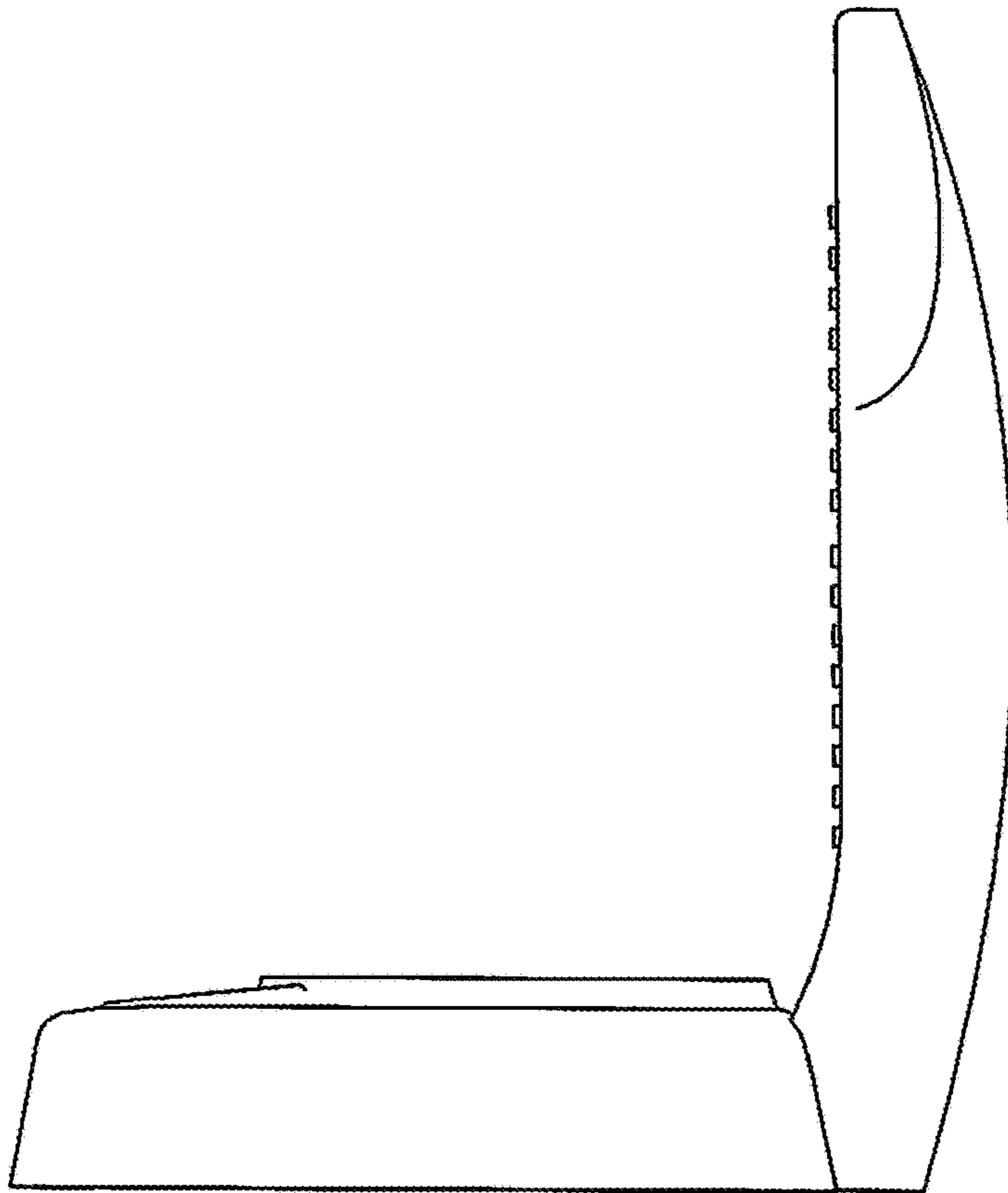


FIG. 9

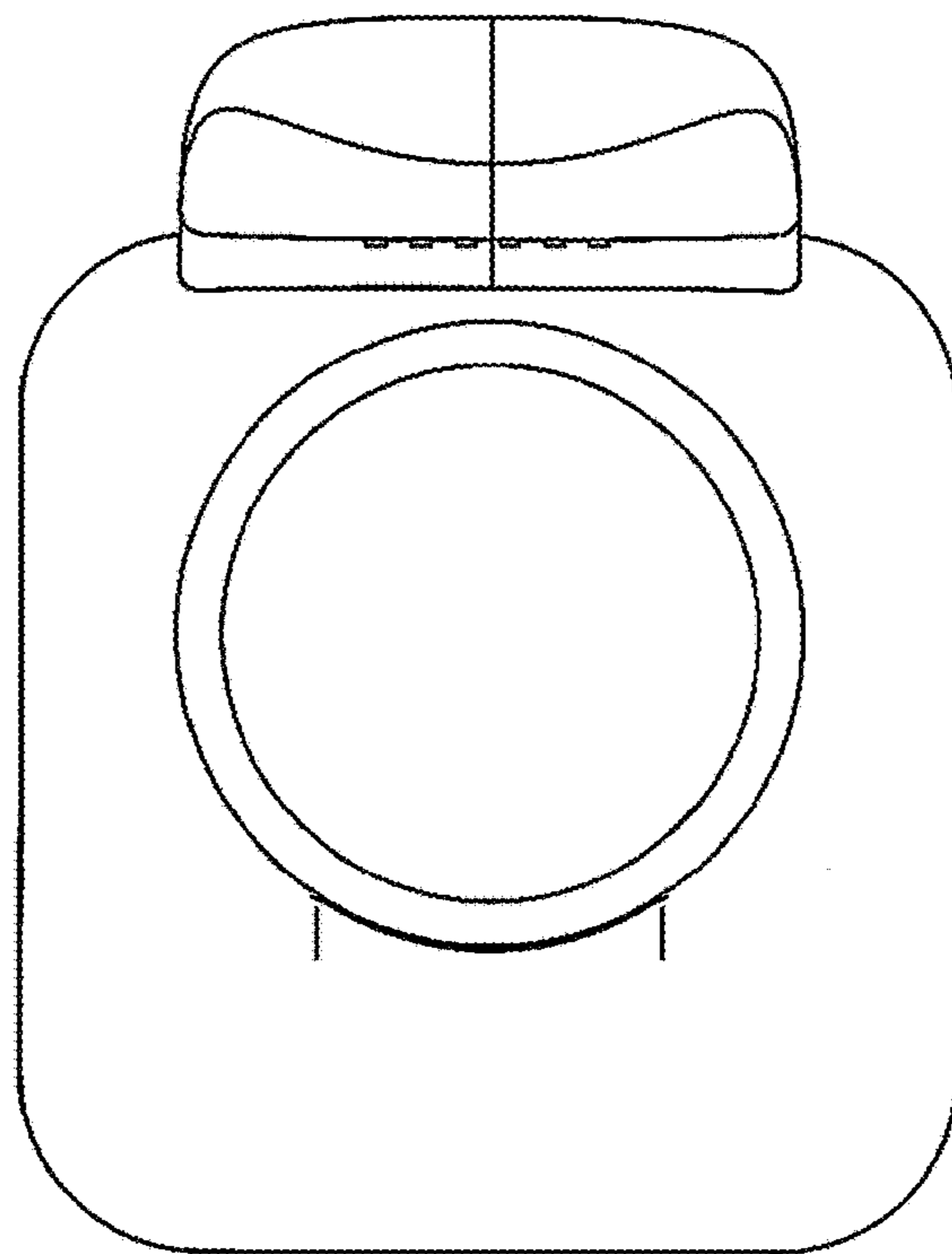


FIG. 10

