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

(10) **Patent No.:** **US D754,131 S**
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- (54) **PORTABLE SOLID STATE DISK**
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- (52) **U.S. Cl.**
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- (58) **Field of Classification Search**
USPC D14/435-438, 478-480; 235/441, 443, 235/487, 492, 493, 495; 361/737, 679, 752, 361/736, 728, 796, 797, 729, 730, 361/725-727; 257/678, 679, 693, E23.064; 439/946, 948, 159; 174/250, 260, 52.1, 174/52.2; 710/300-303; 438/121
CPC G06K 19/06196; G06K 19/072; G06K 19/0721; G06K 19/0722; G06K 19/0723; G06K 19/0724; G06K 19/0725; G06K 19/0726; G06K 19/0727; G06K 19/0728; G06K 19/073; G06K 19/07309; G06K 19/077; G06K 19/07701; G06K 19/07715; G06K 19/0772; G06K 19/07722; G06K 19/07724; G06K 19/07726; G06K 19/07728; G06F 21/77-21/80; G06F 21/85-21/88; G06F 21/00; G06Q 20/3229; G06Q 20/34; G06Q 20/341; G06Q 20/346; G06Q 20/349; G06Q 20/3563; G06Q 20/3567; G06Q 20/357; G06Q 20/3576; H05K 5/026; H05K 5/0256; H05K 5/0265; H05K 5/0269; H05K 5/0273; H05K 5/0278; H05K 5/0282; H05K 5/0286; H05K 5/0291; H05K 5/0295; H05K 5/03; H05K 5/04; H05K 5/06; H05K 5/061; H05K 5/062; H05K 5/063; H05K 5/064; H05K 5/065; H05K 5/066; H05K 5/067; H05K 5/068; H05K 5/069;

H05K 7/00; H05K 7/005; H05K 7/02; H05K 7/023; H05K 7/026; H05K 7/04; H05K 7/10; H05K 7/1418; H05K 7/142; H05K 7/1424; H05K 7/1427-7/1439; H05K 7/1461; H05K 7/1464-7/1474; H05K 7/1479; H05K 7/1481; H05K 7/1485-7/1488; H05K 2201/09745; H05K 2201/09754; H05K 2201/09763; H05K 2201/09772; H05K 2201/098; H05K 2201/09818; H05K 2201/10; H05K 2201/10007; H04N 2201/216

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,374,949 A * 4/1921 Osgood A45C 11/38 206/316.2
- 1,947,352 A * 2/1934 Macklanburg E06B 7/232 49/475.1
- D141,980 S * 8/1945 Holland et al. D3/274
- 2,519,977 A * 8/1950 Poschen E06B 7/232 49/444

(Continued)

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(57) **CLAIM**

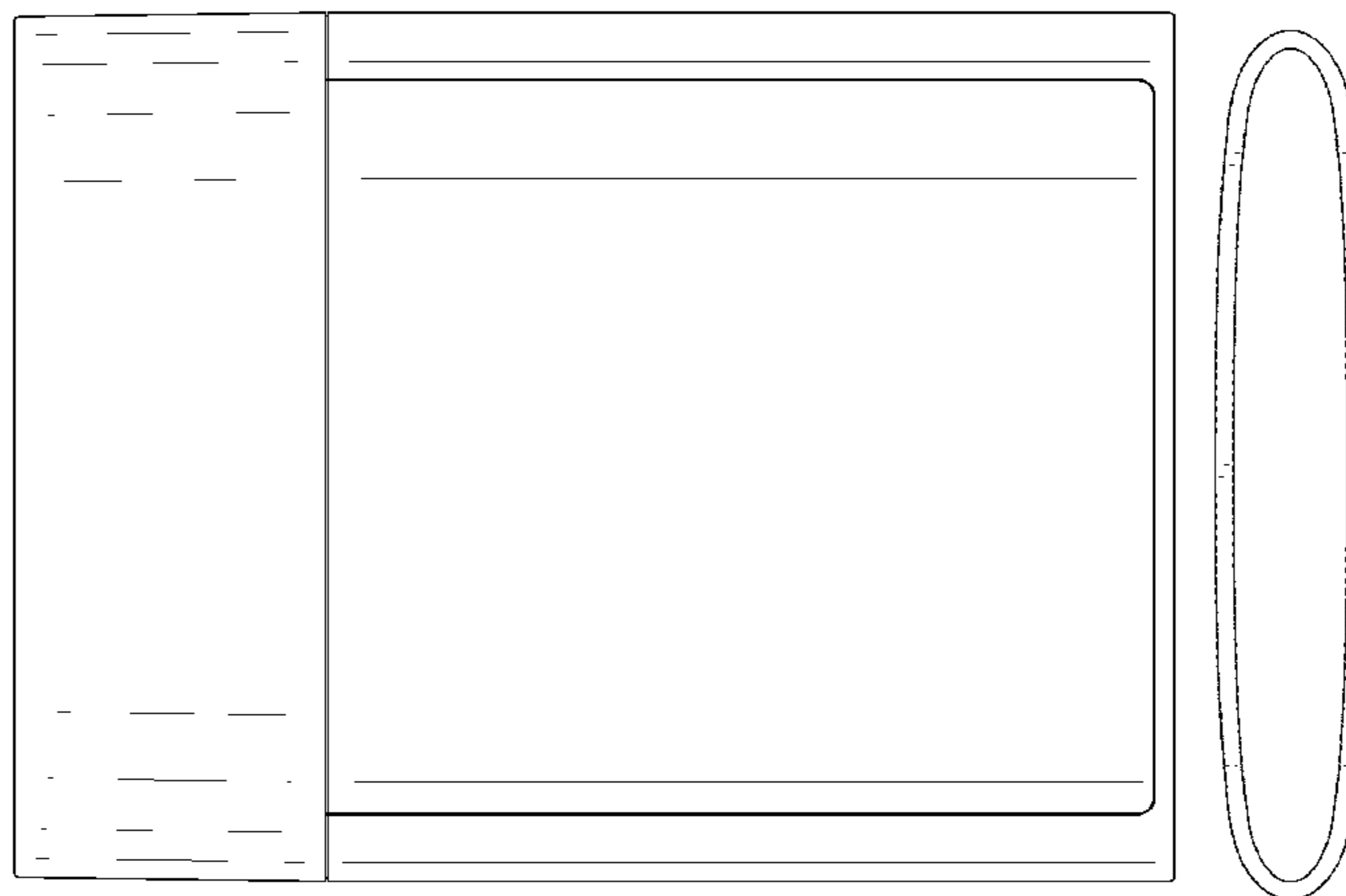
I claim the ornamental design for a portable solid state disk, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a portable solid state disk showing my new design;
 FIG. 2 is a front view thereof;
 FIG. 3 is a rear view thereof;
 FIG. 4 is a left-side view thereof;
 FIG. 5 is a right-side view thereof;
 FIG. 6 is a top plan view thereof; and,
 FIG. 7 is a bottom plan view thereof.

The broken lines in the figures show portions of the memory card which form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

- 2,612,664 A * 10/1952 Sidden E06B 7/231
49/493.1
- 3,071,172 A * 1/1963 Mayer A45C 11/38
206/316.2
- D196,912 S * 11/1963 Kostich D13/147
- 3,311,960 A * 4/1967 Kessler D04H 11/08
156/72
- 3,374,579 A * 3/1968 Neff E06B 7/2316
49/468
- 3,535,824 A * 10/1970 Kessler B29C 47/067
156/244.24
- D248,470 S * 7/1978 Talesfore D14/435
- D252,753 S * 8/1979 Thompson D14/438
- D257,345 S * 10/1980 Levy D14/435
- D260,762 S * 9/1981 Peroni D10/103
- D266,509 S * 10/1982 Marshall D14/159
- D266,514 S * 10/1982 Fernald, Jr. D14/438
- D272,342 S * 1/1984 Cheng D14/435
- D274,731 S * 7/1984 Girardi D14/435
- 4,476,653 A * 10/1984 Speer E06B 1/70
49/468
- D277,665 S * 2/1985 Genaro D14/149
- D290,705 S * 7/1987 Yomo D14/435
- D292,399 S * 10/1987 Yukawa D14/435
- 4,736,838 A * 4/1988 Nakata A45C 11/34
206/214
- D298,629 S * 11/1988 Mochizuki D14/438
- D301,771 S * 6/1989 Bakic D28/76
- D302,427 S * 7/1989 Pushelberg D14/435
- D306,519 S * 3/1990 Nakata D3/206
- D309,728 S * 8/1990 Nuttall D14/356
- D315,903 S * 4/1991 Nakauma D14/435
- 5,012,614 A * 5/1991 Shea E06B 1/70
49/468
- 5,029,911 A * 7/1991 Daniels E05B 63/0052
292/170
- D320,203 S * 9/1991 Ashida D14/438
- 5,130,891 A * 7/1992 Christie B60R 11/02
330/65
- 5,179,501 A * 1/1993 Ocken H05K 1/0278
174/254
- D339,806 S * 9/1993 Grinkus D14/217
- D344,511 S * 2/1994 Ansai D14/137
- D345,304 S * 3/1994 Leader D9/418
- D348,258 S * 6/1994 Giompaolo D14/438
- D348,888 S * 7/1994 Fenton D14/242
- 5,375,376 A * 12/1994 Scott B29C 44/12
49/419
- D354,500 S * 1/1995 Georgopulos D14/242
- D368,429 S * 4/1996 Serio, Jr. D13/184
- D371,387 S * 7/1996 Woock D14/341
- D374,222 S * 10/1996 Brandt D14/471
- 5,568,006 A * 10/1996 Luff H03H 9/1021
310/340
- D376,795 S * 12/1996 Ashida D14/438
- D377,488 S * 1/1997 Ashida D14/438
- D379,993 S * 6/1997 Devitt D14/149
- D385,879 S * 11/1997 Isonaga D14/507
- D393,632 S * 4/1998 Sherry D14/435
- D394,055 S * 5/1998 Tyler D14/438
- D396,856 S * 8/1998 Oba D14/125
- D411,767 S * 7/1999 Keller D28/83
- D421,597 S * 3/2000 Oba D13/182
- D421,967 S * 3/2000 Oba D13/182
- D427,193 S * 6/2000 Fedele D14/348
- D432,505 S * 10/2000 Oba D13/182
- D432,523 S * 10/2000 Grinkus D14/217
- 6,138,413 A * 10/2000 Fehr E06B 1/30
49/382
- D438,532 S * 3/2001 Gargani D14/240
- D441,735 S * 5/2001 Katayama D14/203.3
- D441,757 S * 5/2001 Hui D14/435
- D446,499 S * 8/2001 Andre D13/110
- D446,718 S * 8/2001 Anderson D9/422
- D446,825 S * 8/2001 Gabrielsen D21/385
- D454,110 S * 3/2002 Andre D13/110
- D454,837 S * 3/2002 Ibuki D13/107
- 6,524,732 B1 * 2/2003 Iwaizono H01M 10/42
429/100
- D473,222 S * 4/2003 Chiou D14/240
- D480,372 S * 10/2003 Chen D14/203.3
- D486,830 S * 2/2004 Kadonaga D13/182
- D488,475 S * 4/2004 Yu D14/436
- D488,476 S * 4/2004 Yu D14/436
- D490,796 S * 6/2004 Allen D14/260
- D495,322 S * 8/2004 Doyle D14/240
- D502,947 S * 3/2005 Zhang D14/385
- 6,891,721 B2 * 5/2005 Huang G11B 25/043
361/679.33
- D511,151 S * 11/2005 Wells D14/125
- D511,770 S * 11/2005 Chung D14/480.5
- 6,962,025 B1 * 11/2005 Hill C23C 4/00
148/525
- D517,065 S * 3/2006 Ko D14/365
- 7,013,164 B2 * 3/2006 Lin H04B 1/207
455/42
- 7,035,110 B1 * 4/2006 Wang H05K 5/0278
361/737
- D520,502 S * 5/2006 Xu D14/356
- D531,127 S * 10/2006 Zhong D13/147
- 7,121,846 B2 * 10/2006 Katayanagi H01R 23/6873
439/76.1
- D532,786 S * 11/2006 Iseki D14/365
- D534,184 S * 12/2006 Leija D14/496
- D534,545 S * 1/2007 Leija D14/496
- D536,333 S * 2/2007 McRae D14/240
- D538,795 S * 3/2007 Wong D14/240
- D540,793 S * 4/2007 Kim D14/240
- D540,798 S * 4/2007 Orthey D14/385
- D542,242 S * 5/2007 Mathews Reynolds D14/125
- D542,784 S * 5/2007 Franck D14/240
- D542,788 S * 5/2007 Gutmann D14/480.5
- D549,193 S * 8/2007 Gomes, II D14/126
- D550,196 S * 9/2007 Griffin D14/155
- D550,613 S * 9/2007 Hamasaki D13/103
- D554,584 S * 11/2007 Feldman D13/110
- D560,228 S * 1/2008 Andre D14/496
- D561,765 S * 2/2008 Jie D14/441
- D562,269 S * 2/2008 Wu D13/180
- 7,333,328 B2 * 2/2008 Funawatari G06F 1/1632
361/679.33
- D563,954 S * 3/2008 Buchanon D14/480.7
- D565,568 S * 4/2008 Trifilio D14/356
- D565,571 S * 4/2008 Trifilio D14/356
- D568,240 S * 5/2008 Haydvoegel D13/103
- D569,389 S * 5/2008 Andre D14/496
- D570,350 S * 6/2008 Miller D14/426
- D570,876 S * 6/2008 Lee D14/496
- D574,014 S * 7/2008 Dai D14/496
- D575,729 S * 8/2008 Nomi D13/107
- D576,100 S * 9/2008 Wang D13/110
- D576,164 S * 9/2008 Takahashi D14/385
- D577,008 S * 9/2008 Andre D13/133
- D577,664 S * 9/2008 Matsui D13/107
- D578,119 S * 10/2008 Camarena D14/368
- D578,526 S * 10/2008 Hwangbo D14/341
- D579,931 S * 11/2008 Chang D14/242
- D580,349 S * 11/2008 Haydvoegel D13/103
- D580,435 S * 11/2008 Huang D14/356
- D580,854 S * 11/2008 Kim D13/108
- D585,077 S * 1/2009 Sheba D14/434
- D585,448 S * 1/2009 Kawaguchi D14/435
- D586,740 S * 2/2009 Song D13/103
- D586,741 S * 2/2009 Song D13/103
- D587,209 S * 2/2009 Tsai D13/147
- D588,545 S * 3/2009 Andre D13/147
- D590,336 S * 4/2009 Tatehata D13/103
- D590,826 S * 4/2009 Andre D14/341
- D591,752 S * 5/2009 Aoki D14/436
- D592,130 S * 5/2009 Tatehata D13/103
- D592,677 S * 5/2009 Sheba D14/434
- D593,940 S * 6/2009 Nomi D13/103
- D594,002 S * 6/2009 Kettula D14/240
- D595,221 S * 6/2009 Schussler D13/103

(56)

References Cited

U.S. PATENT DOCUMENTS

D596,634	S *	7/2009	Wong	D14/358	D726,179	S *	4/2015	Orthey	D14/358
D597,090	S *	7/2009	Bemelmans	D14/341	D727,846	S *	4/2015	Wen	D13/110
D601,494	S *	10/2009	Otani	D13/103	D729,727	S *	5/2015	Lin	D13/103
D603,409	S *	11/2009	Ishida	D14/435	D733,704	S *	7/2015	Nagao	D14/341
D606,543	S *	12/2009	Wong	D14/358	D738,503	S *	9/2015	Md Kassim	D24/150
D611,470	S *	3/2010	Andre	D14/341	D739,405	S *	9/2015	Razdan	D14/365
D612,329	S *	3/2010	Guccione	D13/108	D741,308	S *	10/2015	Lee	D14/248
D616,899	S *	6/2010	Andre	D14/496	D741,800	S *	10/2015	Yonishi	D13/119
D617,323	S *	6/2010	Willenz	D14/356	9,155,368	B2 *	10/2015	Chang	A45C 11/22
D624,076	S *	9/2010	Huh	D14/366	D743,395	S *	11/2015	Chen	D14/385
D626,126	S *	10/2010	Park	D14/365	D743,398	S *	11/2015	Smith et al.	D14/433
D626,552	S *	11/2010	Andre	D14/341	D743,889	S *	11/2015	Lyles	D13/110
D627,367	S *	11/2010	Andre	D14/496	2002/0021558	A1 *	2/2002	Schwarz	G05B 19/054 361/729
D631,458	S *	1/2011	Liao	D14/138 G	2002/0177362	A1 *	11/2002	Chang	G06K 19/07739 439/638
D631,838	S *	2/2011	Cheng	D13/108	2003/0017372	A1 *	1/2003	Probst	A61N 1/375 429/7
D634,326	S *	3/2011	Gehrke	D14/435.1	2003/0017390	A1 *	1/2003	Probst	A61N 1/375 429/176
D638,385	S *	5/2011	Wong	D14/125	2003/0082441	A1 *	5/2003	Hovi	H01M 2/1061 429/123
D641,362	S *	7/2011	Dublin	D14/356	2004/0091769	A1 *	5/2004	Kawabata	H01M 2/08 429/163
D641,363	S *	7/2011	Dublin	D14/356	2004/0234848	A1 *	11/2004	Chung	H01M 2/021 429/181
D641,971	S *	7/2011	Shibata	D3/206	2005/0041387	A1 *	2/2005	Lee	G06F 1/16 361/679.33
7,971,400	B2 *	7/2011	Boldt	E06B 1/30 52/204.1	2005/0208345	A1 *	9/2005	Yoon	H01M 2/0434 429/7
D642,585	S *	8/2011	Lan	D14/480.5	2005/0214597	A1 *	9/2005	Kim	H01M 2/0404 429/7
D644,988	S *	9/2011	Finney	D13/103	2006/0003192	A1 *	1/2006	Lim	H01M 2/20 429/7
D645,814	S *	9/2011	Otani	D13/103	2006/0056103	A1 *	3/2006	Hamming	G06F 1/187 360/99.13
D646,222	S *	10/2011	Tatehata	D13/103	2006/0099492	A1 *	5/2006	Jeon	H01M 2/0404 429/61
D648,340	S *	11/2011	Okura	D14/480.7	2007/0293079	A1 *	12/2007	Chao	H01R 3/6275 439/352
D648,690	S *	11/2011	Snodgrass	D14/125	2008/0158808	A1 *	7/2008	Camarena	G06F 1/187 361/679.34
D648,719	S *	11/2011	Gehrke	D14/257	2008/0280490	A1 *	11/2008	Nguyen	G06F 12/1416 439/607.01
D650,738	S *	12/2011	Leung	D13/107	2009/0033621	A1 *	2/2009	Quinn	G06F 3/0231 345/158
D650,811	S *	12/2011	Andre	D14/496	2009/0117412	A1 *	5/2009	Koh	H01M 2/0473 429/7
D653,250	S *	1/2012	Gehrke	D14/257	2009/0123821	A1 *	5/2009	Kim	H01M 2/0404 429/124
D656,496	S *	3/2012	Andre	D14/341	2009/0154048	A1 *	6/2009	Jang	H01M 2/30 361/106
D656,955	S *	4/2012	Akana	D14/203.3	2009/0155684	A1 *	6/2009	Jang	H01M 2/021 429/178
D659,712	S *	5/2012	Andre	D14/496	2010/0031578	A1 *	2/2010	Hartwell	E06B 1/70 49/468
D661,248	S *	6/2012	Fahrendorff	D13/107	2010/0053859	A1 *	3/2010	Chang	H01R 13/5213 361/679.01
D662,498	S *	6/2012	Morgan	D14/356	2010/0064590	A1 *	3/2010	Jones	E05D 15/0656 49/469
D662,878	S *	7/2012	Fahrendorff	D13/107	2011/0003179	A1 *	1/2011	Jang	H01M 2/0404 429/7
D664,994	S *	8/2012	Akana	D14/203.3	2011/0075349	A1 *	3/2011	Ma	G06F 1/1632 361/679.41
D665,734	S *	8/2012	Fitch	D13/107	2012/0044620	A1 *	2/2012	Song	G06F 1/1616 361/679.01
D665,774	S *	8/2012	Akana	D14/203.1	2012/0262109	A1 *	10/2012	Toya	H01M 10/44 320/108
D670,297	S *	11/2012	Huang	D14/480.5	2013/0002133	A1 *	1/2013	Jin	G06F 1/169 313/511
D671,907	S *	12/2012	Behringer	D14/188	2013/0042535	A1 *	2/2013	Fleeting	E06B 7/26 49/476.1
D672,336	S *	12/2012	Lister	D14/218	2013/0091776	A1 *	4/2013	Van Camp	E06B 1/70 49/467
D677,623	S *	3/2013	Fitch	D13/108	2013/0263516	A1 *	10/2013	Potter	E06B 7/231 49/493.1
D678,191	S *	3/2013	Fitch	D13/108					
D678,876	S *	3/2013	Andre	D14/341					
D680,068	S *	4/2013	Lee	D13/108					
D682,777	S *	5/2013	Gupta	D13/103					
8,446,711	B2 *	5/2013	Liao	H04M 1/0283 361/679.01					
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D684,114	S *	6/2013	Otani	D13/103					
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D687,023	S *	7/2013	Jung	D14/242					
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D694,708	S *	12/2013	Kim	D13/108					
D700,136	S *	2/2014	Morris	D13/103					
D700,139	S *	2/2014	Chan	D13/103					
D703,614	S *	4/2014	Lee	D13/147					
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D706,357	S *	6/2014	Ashida	D21/330					
D706,778	S *	6/2014	Kawasaki	D14/356					
D706,779	S *	6/2014	Kawasaki	D14/356					
D711,820	S *	8/2014	Zeng	D13/103					
D714,767	S *	10/2014	Liang	D14/242					
D716,304	S *	10/2014	Orthey	D14/385					
D717,243	S *	11/2014	Liu	D13/103					
D722,387	S *	2/2015	Van Camp	D25/48.2					
D724,102	S *	3/2015	Andre	D14/203.1					
D725,591	S *	3/2015	Chien	D13/103					

* cited by examiner

FIG. 1

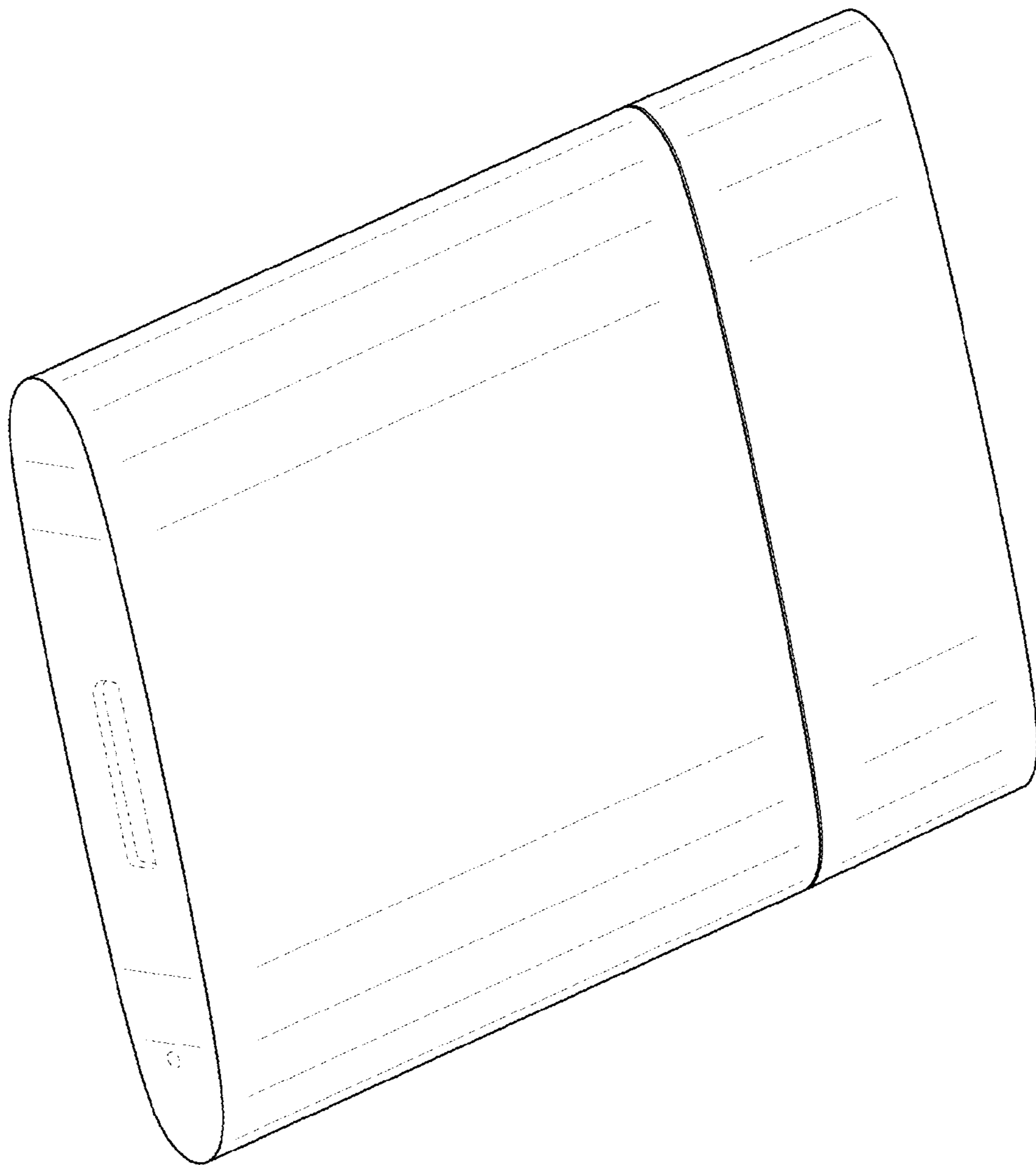


FIG. 2



FIG. 3

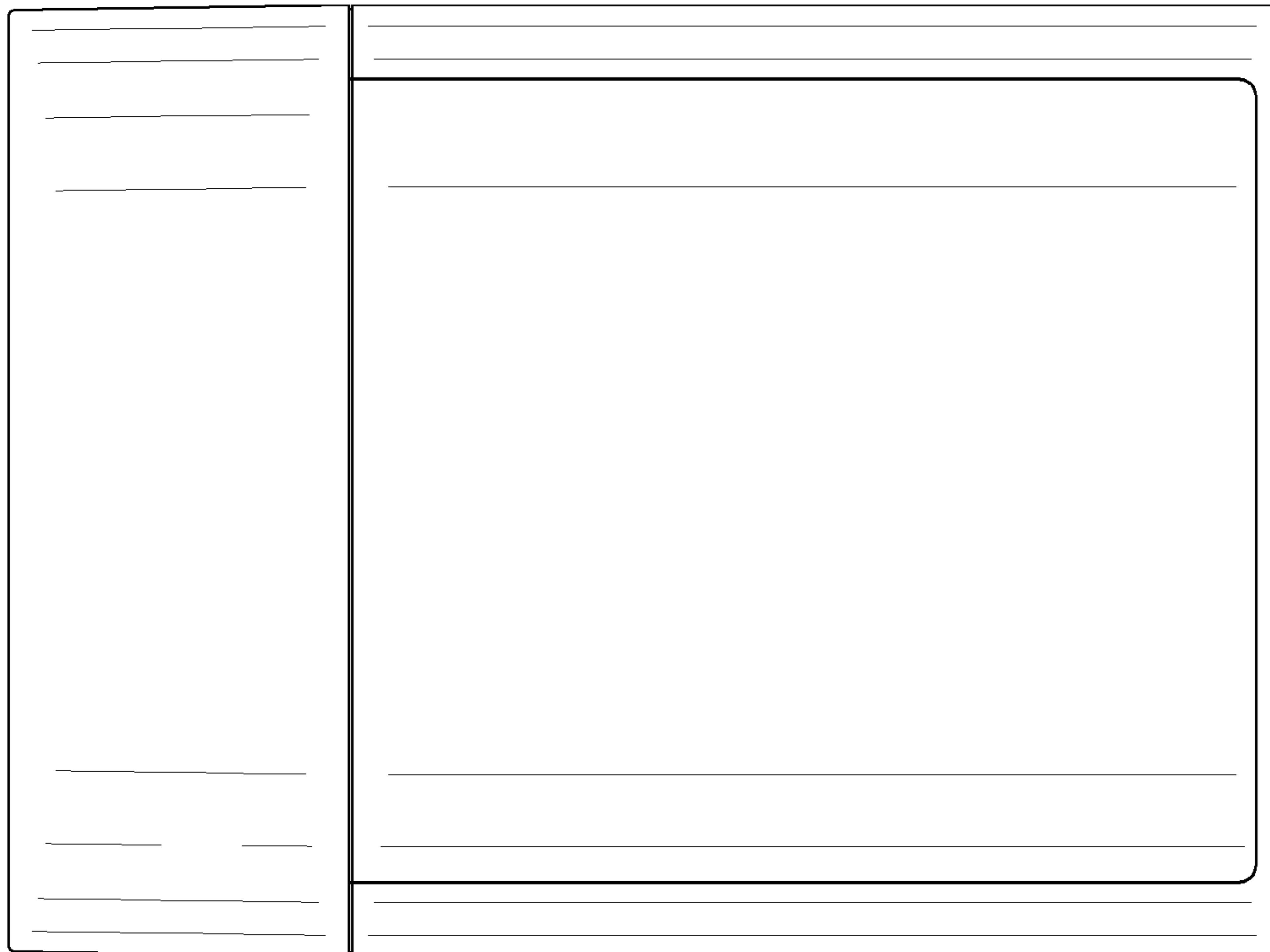


FIG. 4

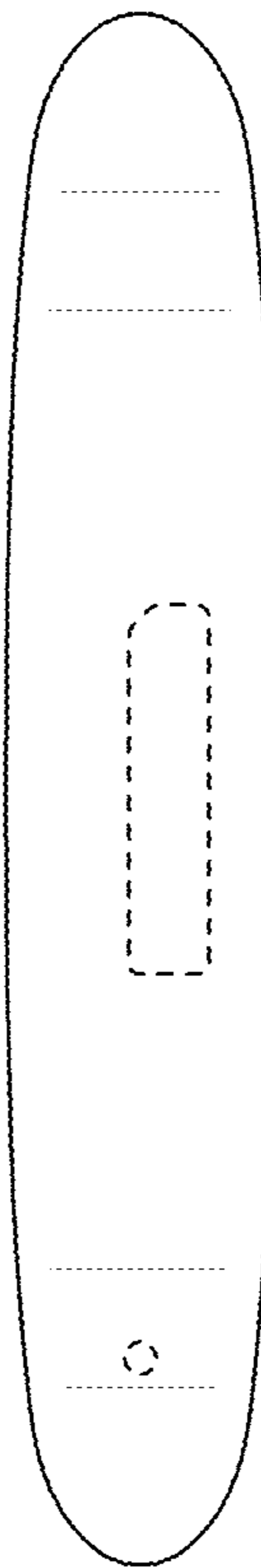


FIG. 5

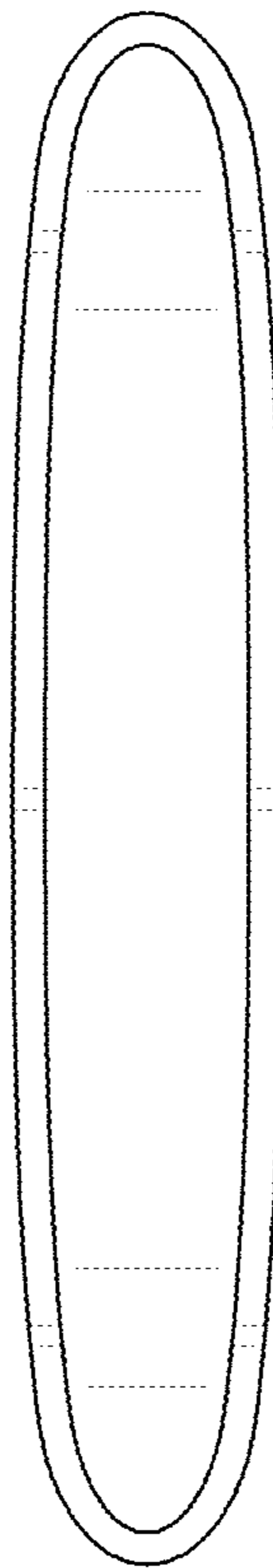


FIG. 6

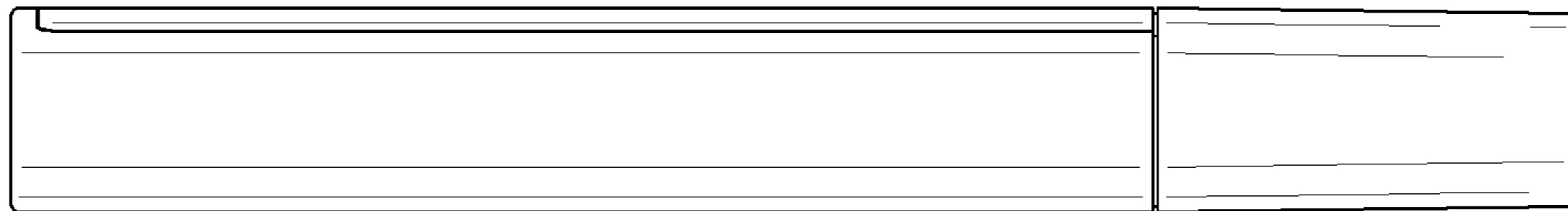


FIG. 7

