

US00D754131S

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

(10) **Patent No.:** **US D754,131 S**
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- (54) **PORTABLE SOLID STATE DISK**
- (71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)
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- (52) **U.S. Cl.**
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- (58) **Field of Classification Search**
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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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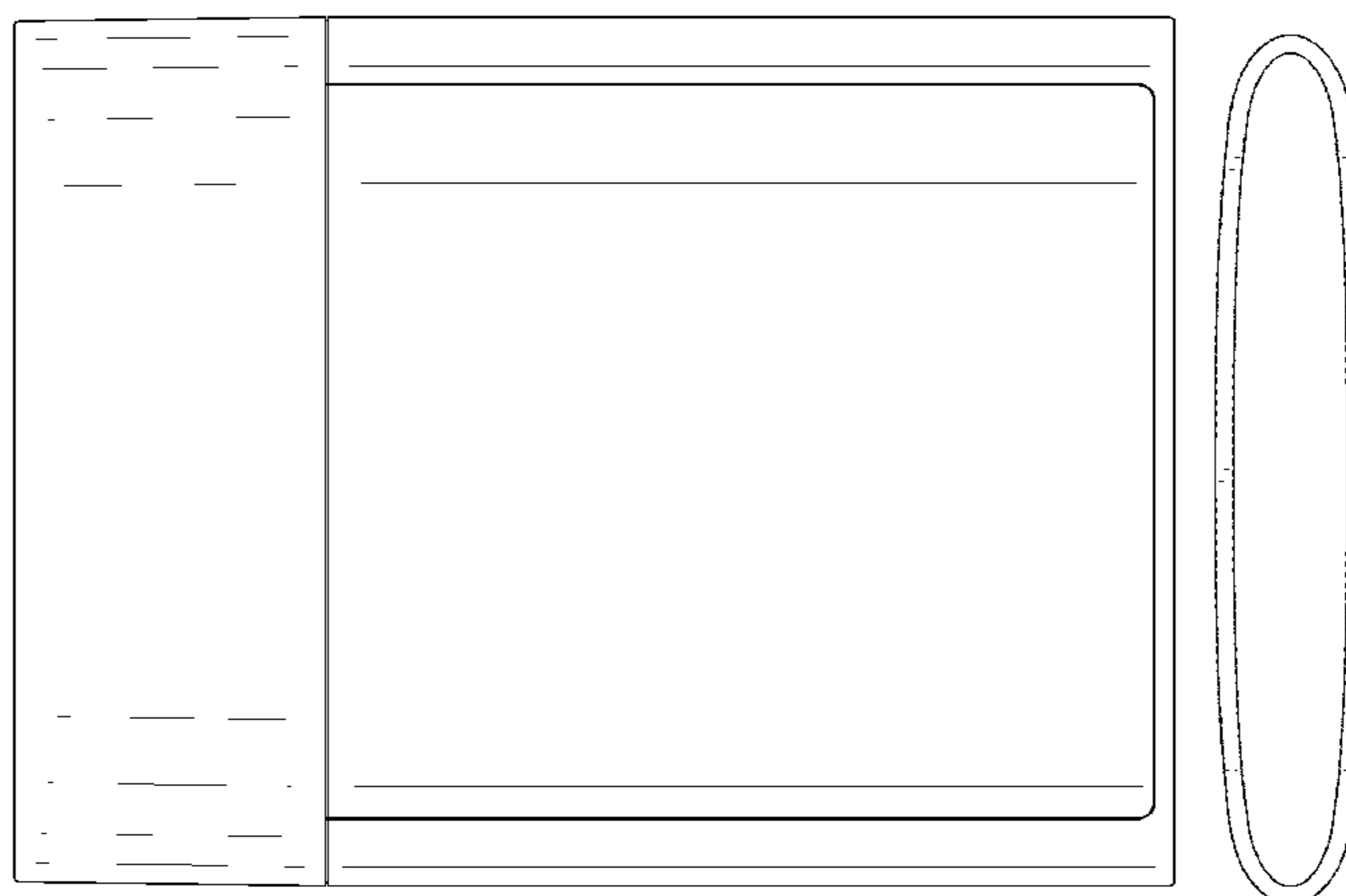
(57) **CLAIM**

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	D454,110	S *	3/2002	Andre	.....	D13/110
3,071,172	A *	1/1963	Mayer	.....	A45C 11/38 206/316.2	D454,837	S *	3/2002	Ibuki	.....	D13/107
D196,912	S *	11/1963	Kostich	.....	D13/147	6,524,732	B1 *	2/2003	Iwaizono	.....	H01M 10/42 429/100
3,311,960	A *	4/1967	Kessler	.....	D04H 11/08 156/72	D473,222	S *	4/2003	Chiou	.....	D14/240
3,374,579	A *	3/1968	Neff	.....	E06B 7/2316 49/468	D480,372	S *	10/2003	Chen	.....	D14/203.3
3,535,824	A *	10/1970	Kessler	.....	B29C 47/067 156/244.24	D486,830	S *	2/2004	Kadonaga	.....	D13/182
D248,470	S *	7/1978	Talesfore	.....	D14/435	D488,475	S *	4/2004	Yu	.....	D14/436
D252,753	S *	8/1979	Thompson	.....	D14/438	D488,476	S *	4/2004	Yu	.....	D14/436
D257,345	S *	10/1980	Levy	.....	D14/435	D490,796	S *	6/2004	Allen	.....	D14/260
D260,762	S *	9/1981	Peroni	.....	D10/103	D495,322	S *	8/2004	Doyle	.....	D14/240
D266,509	S *	10/1982	Marshall	.....	D14/159	D502,947	S *	3/2005	Zhang	.....	D14/385
D266,514	S *	10/1982	Fernald, Jr.	.....	D14/438	6,891,721	B2 *	5/2005	Huang	.....	G11B 25/043 361/679.33
D272,342	S *	1/1984	Cheng	.....	D14/435	D511,151	S *	11/2005	Wells	.....	D14/125
D274,731	S *	7/1984	Girardi	.....	D14/435	D511,770	S *	11/2005	Chung	.....	D14/480.5
4,476,653	A *	10/1984	Speer	.....	E06B 1/70 49/468	6,962,025	B1 *	11/2005	Hill	.....	C23C 4/00 148/525
D277,665	S *	2/1985	Genaro	.....	D14/149	D517,065	S *	3/2006	Ko	.....	D14/365
D290,705	S *	7/1987	Yomo	.....	D14/435	7,013,164	B2 *	3/2006	Lin	.....	H04B 1/207 455/42
D292,399	S *	10/1987	Yukawa	.....	D14/435	7,035,110	B1 *	4/2006	Wang	.....	H05K 5/0278 361/737
4,736,838	A *	4/1988	Nakata	.....	A45C 11/34 206/214	D520,502	S *	5/2006	Xu	.....	D14/356
D298,629	S *	11/1988	Mochizuki	.....	D14/438	D531,127	S *	10/2006	Zhong	.....	D13/147
D301,771	S *	6/1989	Bakic	.....	D28/76	7,121,846	B2 *	10/2006	Katayanagi	.....	H01R 23/6873 439/76.1
D302,427	S *	7/1989	Pushelberg	.....	D14/435	D532,786	S *	11/2006	Iseki	.....	D14/365
D306,519	S *	3/1990	Nakata	.....	D3/206	D534,184	S *	12/2006	Leija	.....	D14/496
D309,728	S *	8/1990	Nuttall	.....	D14/356	D534,545	S *	1/2007	Leija	.....	D14/496
D315,903	S *	4/1991	Nakauma	.....	D14/435	D536,333	S *	2/2007	McRae	.....	D14/240
5,012,614	A *	5/1991	Shea	.....	E06B 1/70 49/468	D538,795	S *	3/2007	Wong	.....	D14/240
5,029,911	A *	7/1991	Daniels	.....	E05B 63/0052 292/170	D540,793	S *	4/2007	Kim	.....	D14/240
D320,203	S *	9/1991	Ashida	.....	D14/438	D540,798	S *	4/2007	Orthey	.....	D14/385
5,130,891	A *	7/1992	Christie	.....	B60R 11/02 330/65	D542,242	S *	5/2007	Mathews Reynolds	.....	D14/125
5,179,501	A *	1/1993	Ocken	.....	H05K 1/0278 174/254	D542,784	S *	5/2007	Franck	.....	D14/240
D339,806	S *	9/1993	Grinkus	.....	D14/217	D542,788	S *	5/2007	Gutmann	.....	D14/480.5
D344,511	S *	2/1994	Ansai	.....	D14/137	D549,193	S *	8/2007	Gomes, II	.....	D14/126
D345,304	S *	3/1994	Leader	.....	D9/418	D550,196	S *	9/2007	Griffin	.....	D14/155
D348,258	S *	6/1994	Giampaolo	.....	D14/438	D550,613	S *	9/2007	Hamasaki	.....	D13/103
D348,888	S *	7/1994	Fenton	.....	D14/242	D554,584	S *	11/2007	Feldman	.....	D13/110
5,375,376	A *	12/1994	Scott	.....	B29C 44/12 49/419	D560,228	S *	1/2008	Andre	.....	D14/496
D354,500	S *	1/1995	Georgopoulos	.....	D14/242	D561,765	S *	2/2008	Jie	.....	D14/441
D368,429	S *	4/1996	Serio, Jr.	.....	D13/184	D562,269	S *	2/2008	Wu	.....	D13/180
D371,387	S *	7/1996	Woock	.....	D14/341	7,333,328	B2 *	2/2008	Funawatari	.....	G06F 1/1632 361/679.33
D374,222	S *	10/1996	Brandt	.....	D14/471	D563,954	S *	3/2008	Buchanon	.....	D14/480.7
5,568,006	A *	10/1996	Luff	.....	H03H 9/1021 310/340	D565,568	S *	4/2008	Trifilio	.....	D14/356
D376,795	S *	12/1996	Ashida	.....	D14/438	D565,571	S *	4/2008	Trifilio	.....	D14/356
D377,488	S *	1/1997	Ashida	.....	D14/438	D568,240	S *	5/2008	Haydvoegel	.....	D13/103
D379,993	S *	6/1997	Devitt	.....	D14/149	D569,389	S *	5/2008	Andre	.....	D14/496
D385,879	S *	11/1997	Isonaga	.....	D14/507	D570,350	S *	6/2008	Miller	.....	D14/426
D393,632	S *	4/1998	Sherry	.....	D14/435	D570,876	S *	6/2008	Lee	.....	D14/496
D394,055	S *	5/1998	Tyler	.....	D14/438	D574,014	S *	7/2008	Dai	.....	D14/496
D396,856	S *	8/1998	Oba	.....	D14/125	D575,729	S *	8/2008	Nomi	.....	D13/107
D411,767	S *	7/1999	Keller	.....	D28/83	D576,100	S *	9/2008	Wang	.....	D13/110
D421,597	S *	3/2000	Oba	.....	D13/182	D576,164	S *	9/2008	Takahashi	.....	D14/385
D421,967	S *	3/2000	Oba	.....	D13/182	D577,008	S *	9/2008	Andre	.....	D13/133
D427,193	S *	6/2000	Fedele	.....	D14/348	D577,664	S *	9/2008	Matsui	.....	D13/107
D432,505	S *	10/2000	Oba	.....	D13/182	D578,119	S *	10/2008	Camarena	.....	D14/368
D432,523	S *	10/2000	Grinkus	.....	D14/217	D578,526	S *	10/2008	Hwangbo	.....	D14/341
6,138,413	A *	10/2000	Fehr	.....	E06B 1/30 49/382	D579,931	S *	11/2008	Chang	.....	D14/242
D438,532	S *	3/2001	Gargani	.....	D14/240	D580,349	S *	11/2008	Haydvoegel	.....	D13/103
D441,735	S *	5/2001	Katayama	.....	D14/203.3	D580,435	S *	11/2008	Huang	.....	D14/356
D441,757	S *	5/2001	Hui	.....	D14/435	D580,854	S *	11/2008	Kim	.....	D13/108
D446,499	S *	8/2001	Andre	.....	D13/110	D585,077	S *	1/2009	Sheba	.....	D14/434
D446,718	S *	8/2001	Anderson	.....	D9/422	D585,448	S *	1/2009	Kawaguchi	.....	D14/435
D446,825	S *	8/2001	Gabrielsen	.....	D21/385	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
D597,090 S *	7/2009	Bemelmans	D14/341
D601,494 S *	10/2009	Otani	D13/103
D603,409 S *	11/2009	Ishida	D14/435
D606,543 S *	12/2009	Wong	D14/358
D611,470 S *	3/2010	Andre	D14/341
D612,329 S *	3/2010	Guccione	D13/108
D616,899 S *	6/2010	Andre	D14/496
D617,323 S *	6/2010	Willenz	D14/356
D624,076 S *	9/2010	Huh	D14/366
D626,126 S *	10/2010	Park	D14/365
D626,552 S *	11/2010	Andre	D14/341
D627,367 S *	11/2010	Andre	D14/496
D631,458 S *	1/2011	Liao	D14/138 G
D631,838 S *	2/2011	Cheng	D13/108
D634,326 S *	3/2011	Gehrke	D14/435.1
D638,385 S *	5/2011	Wong	D14/125
D641,362 S *	7/2011	Dublin	D14/356
D641,363 S *	7/2011	Dublin	D14/356
D641,971 S *	7/2011	Shibata	D3/206
7,971,400 B2 *	7/2011	Boldt	E06B 1/30 52/204.1
D642,585 S *	8/2011	Lan	D14/480.5
D644,988 S *	9/2011	Finney	D13/103
D645,814 S *	9/2011	Otani	D13/103
D646,222 S *	10/2011	Tatehata	D13/103
D648,340 S *	11/2011	Okura	D14/480.7
D648,690 S *	11/2011	Snodgrass	D14/125
D648,719 S *	11/2011	Gehrke	D14/257
D650,738 S *	12/2011	Leung	D13/107
D650,811 S *	12/2011	Andre	D14/496
D653,250 S *	1/2012	Gehrke	D14/257
D656,496 S *	3/2012	Andre	D14/341
D656,955 S *	4/2012	Akana	D14/203.3
D659,712 S *	5/2012	Andre	D14/496
D661,248 S *	6/2012	Fahrendorff	D13/107
D662,498 S *	6/2012	Morgan	D14/356
D662,878 S *	7/2012	Fahrendorff	D13/107
D664,994 S *	8/2012	Akana	D14/203.3
D665,734 S *	8/2012	Fitch	D13/107
D665,774 S *	8/2012	Akana	D14/203.1
D670,297 S *	11/2012	Huang	D14/480.5
D671,907 S *	12/2012	Behringer	D14/188
D672,336 S *	12/2012	Lister	D14/218
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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
D683,703 S *	6/2013	Akana	D13/147
D684,113 S *	6/2013	Han	D13/103
D684,114 S *	6/2013	Otani	D13/103
D684,916 S *	6/2013	Ashida	D12/332
D684,926 S *	6/2013	Murchison	D13/107
D684,976 S *	6/2013	Akana	D14/433
D685,320 S *	7/2013	Murchison	D13/107
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D691,176 S *	10/2013	Andre	D14/496
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
D705,782 S *	5/2014	McParland	D14/435
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
D726,179 S *	4/2015	Orthey	D14/358
D727,846 S *	4/2015	Wen	D13/110
D729,727 S *	5/2015	Lin	D13/103
D733,704 S *	7/2015	Nagao	D14/341
D738,503 S *	9/2015	Md Kassim	D24/150
D739,405 S *	9/2015	Razdan	D14/365
D741,308 S *	10/2015	Lee	D14/248
D741,800 S *	10/2015	Yonishi	D13/119
9,155,368 B2 *	10/2015	Chang	A45C 11/22
D743,395 S *	11/2015	Chen	D14/385
D743,398 S *	11/2015	Smith et al.	D14/433
D743,889 S *	11/2015	Lyles	D13/110
2002/0021558 A1 *	2/2002	Schwarz	G05B 19/054 361/729
2002/0177362 A1 *	11/2002	Chang	G06K 19/07739 439/638
2003/0017372 A1 *	1/2003	Probst	A61N 1/375 429/7
2003/0017390 A1 *	1/2003	Probst	A61N 1/375 429/176
2003/0082441 A1 *	5/2003	Hovi	H01M 2/1061 429/123
2004/0091769 A1 *	5/2004	Kawabata	H01M 2/08 429/163
2004/0234848 A1 *	11/2004	Chung	H01M 2/021 429/181
2005/0041387 A1 *	2/2005	Lee	G06F 1/16 361/679.33
2005/0208345 A1 *	9/2005	Yoon	H01M 2/0434 429/7
2005/0214597 A1 *	9/2005	Kim	H01M 2/0404 429/7
2006/0003192 A1 *	1/2006	Lim	H01M 2/20 429/7
2006/0056103 A1 *	3/2006	Hamming	G06F 1/187 360/99.13
2006/0099492 A1 *	5/2006	Jeon	H01M 2/0404 429/61
2007/0293079 A1 *	12/2007	Chao	H01R 3/6275 439/352
2008/0158808 A1 *	7/2008	Camarena	G06F 1/187 361/679.34
2008/0280490 A1 *	11/2008	Nguyen	G06F 12/1416 439/607.01
2009/0033621 A1 *	2/2009	Quinn	G06F 3/0231 345/158
2009/0117412 A1 *	5/2009	Koh	H01M 2/0473 429/7
2009/0123821 A1 *	5/2009	Kim	H01M 2/0404 429/124
2009/0154048 A1 *	6/2009	Jang	H01M 2/30 361/106
2009/0155684 A1 *	6/2009	Jang	H01M 2/021 429/178
2010/0031578 A1 *	2/2010	Hartwell	E06B 1/70 49/468
2010/0053859 A1 *	3/2010	Chang	H01R 13/5213 361/679.01
2010/0064590 A1 *	3/2010	Jones	E05D 15/0656 49/469
2011/0003179 A1 *	1/2011	Jang	H01M 2/0404 429/7
2011/0075349 A1 *	3/2011	Ma	G06F 1/1632 361/679.41
2012/0044620 A1 *	2/2012	Song	G06F 1/1616 361/679.01
2012/0262109 A1 *	10/2012	Toya	H01M 10/44 320/108
2013/0002133 A1 *	1/2013	Jin	G06F 1/169 313/511
2013/0042535 A1 *	2/2013	Fleeting	E06B 7/26 49/476.1
2013/0091776 A1 *	4/2013	Van Camp	E06B 1/70 49/467
2013/0263516 A1 *	10/2013	Potter	E06B 7/231 49/493.1

* cited by examiner

FIG. 1

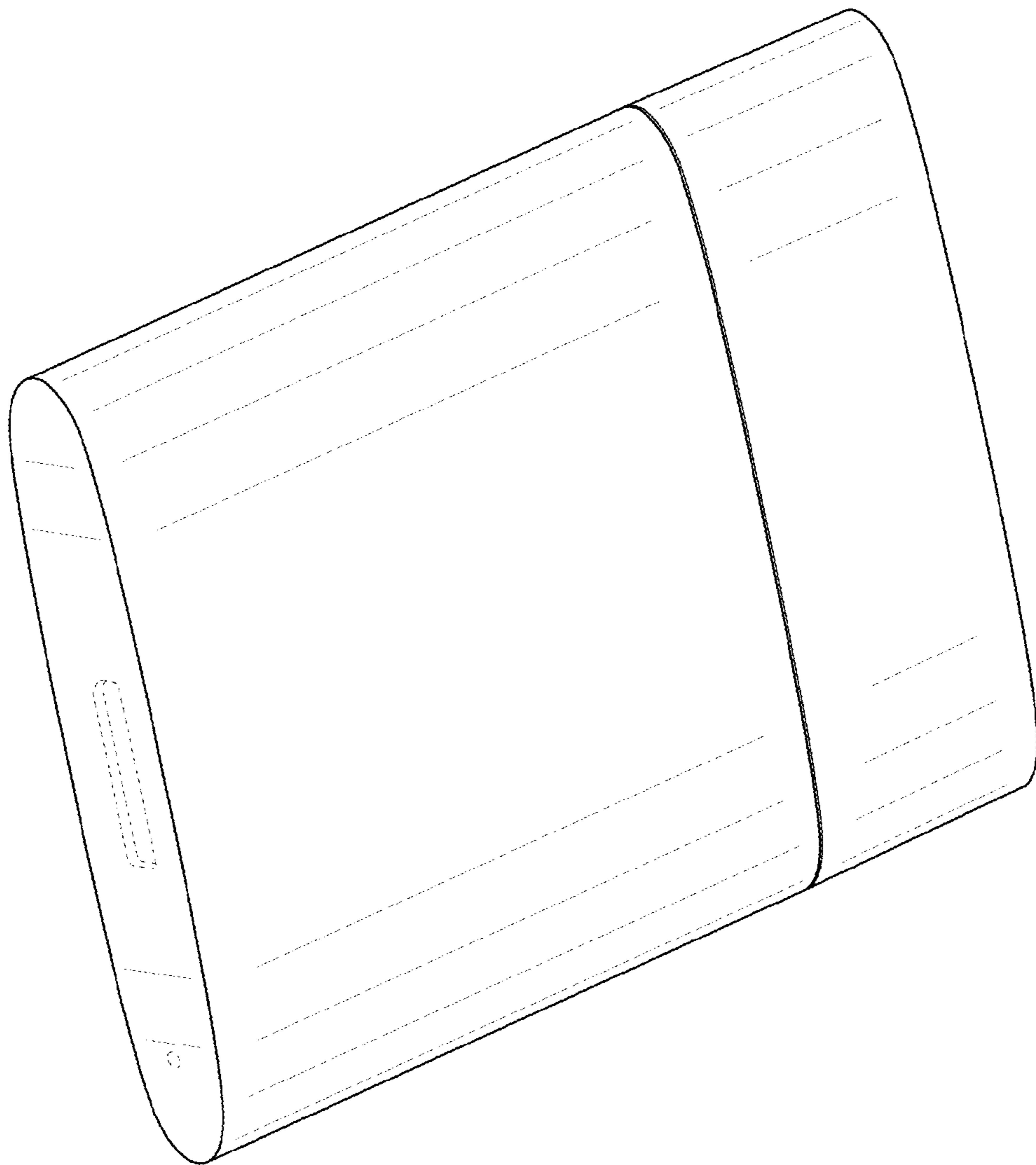


FIG. 2



FIG. 3

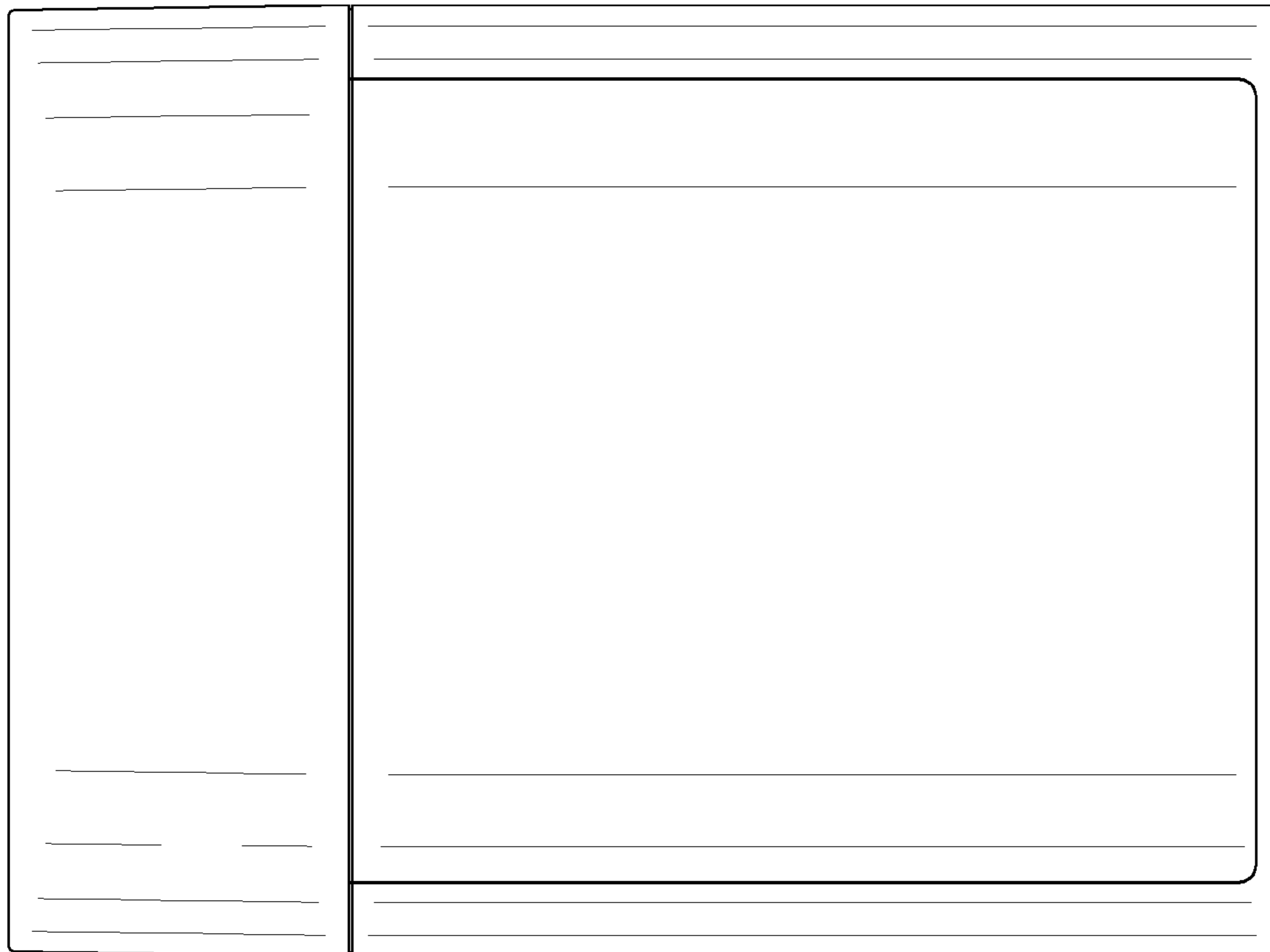


FIG. 4

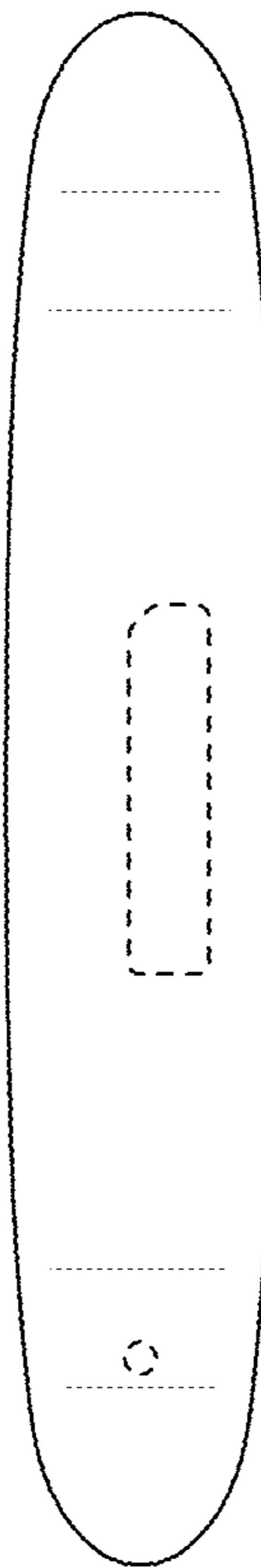


FIG. 5

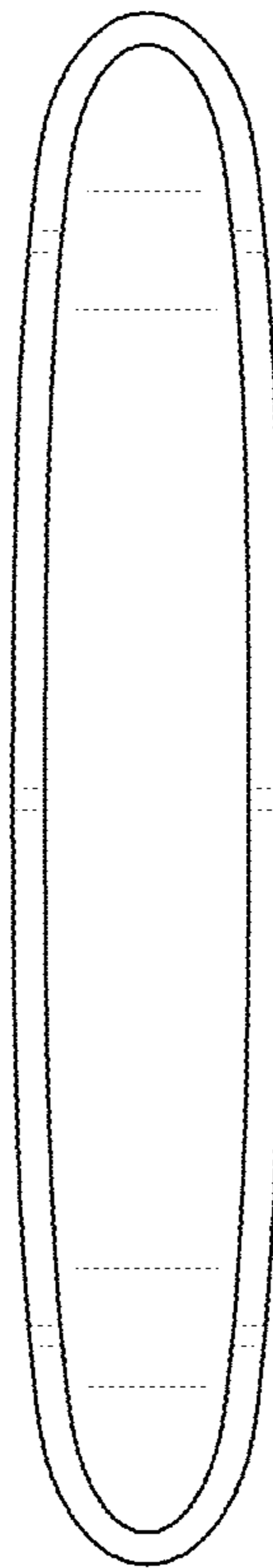


FIG. 6

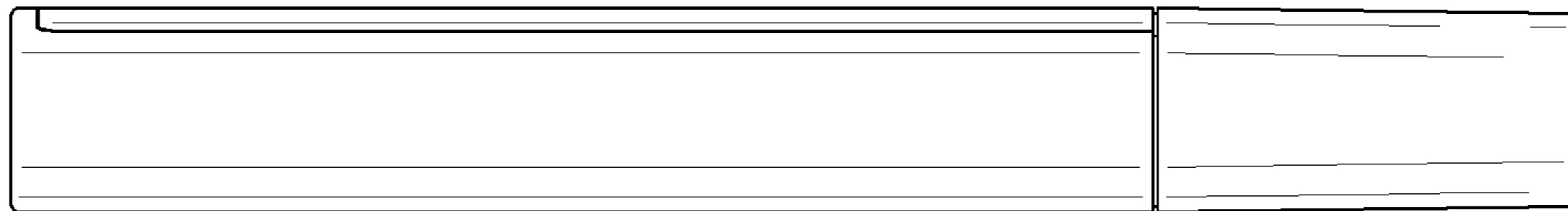


FIG. 7

