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

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(54) **MOBILE COMPUTING DEVICE**

5,165,415 A 11/1992 Wallace et al.

5,205,017 A 4/1993 Wang

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D337,569 S * 7/1993 Kando D14/341

5,231,381 A 7/1993 Duwaer

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(Continued)

(**) Term: **14 Years**

FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS

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BenQ-Siemens EF51, Feb. 2006, 2 pages. www.gsmarena.com/benq_siemens_ef51-1436.php.

(Continued)

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(52) **U.S. Cl.** **D14/432**; D14/341; D14/138 AA

(58) **Field of Classification Search** D14/341-347,
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D14/453, 496, 139 R, 138 AA, 138 AB, 138 AC,
D14/138 AD, 138 C, 138 G, 217, 238.1,
D14/240, 257, 299, 218; 455/556.1, 566,
455/575.1, 575.3, 575.4; 345/169
See application file for complete search history.

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(57)

CLAIM

The ornamental design for a mobile computing device, as
shown and described.

(56) **References Cited**

DESCRIPTION

U.S. PATENT DOCUMENTS

- 3,744,034 A 7/1973 Paul
- D277,252 S 1/1985 Gulotta
- 4,559,705 A 12/1985 Hodge et al.
- D288,746 S 3/1987 Allekotte
- 4,860,372 A 8/1989 Kuzunuki et al.
- 4,896,003 A 1/1990 Hsieh
- D306,176 S 2/1990 Yubisui et al.
- 4,916,441 A 4/1990 Gombrich
- 4,927,986 A 5/1990 Daly
- 4,972,496 A 11/1990 Sklarew
- 5,040,296 A 8/1991 Yerger
- 5,049,862 A 9/1991 Dao et al.
- D326,446 S 5/1992 Wong
- D327,493 S * 6/1992 Hayashi D14/345
- 5,128,829 A 7/1992 Loew

FIG. 1 is a front view of a mobile computing device showing
my new design;

FIG. 2 is a leftward side view thereof;

FIG. 3 is a rightward side view thereof;

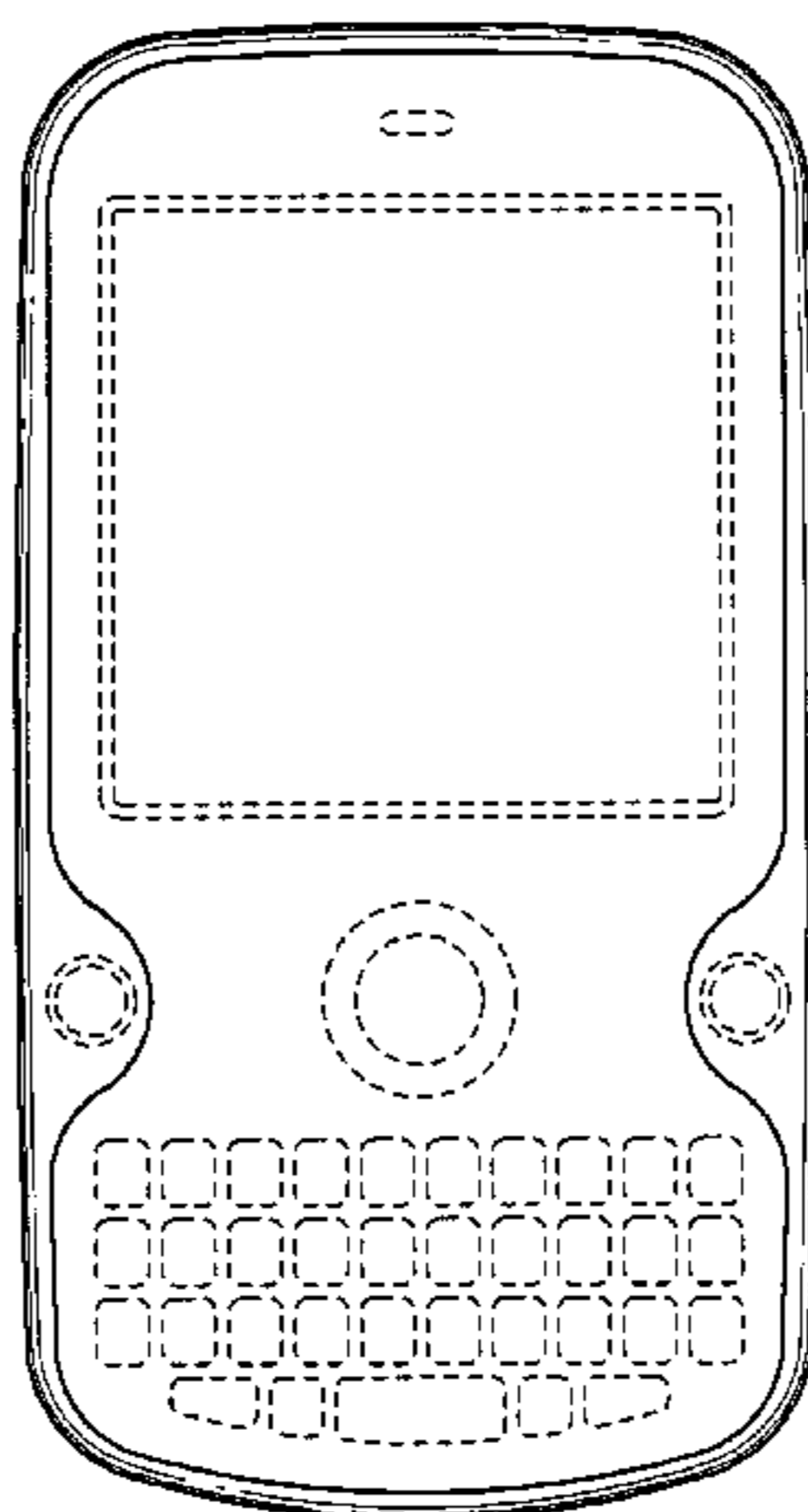
FIG. 4 is a top view thereof; and,

FIG. 5 is a bottom view thereof.

The broken lines in the drawings indicate unclaimed portions
of the mobile computing device and form no part of the
claimed design.

The dash-dot-dot broken lines which define the bounds of the
claimed design form no part thereof.

1 Claim, 3 Drawing Sheets



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U.S. PATENT DOCUMENTS					
5,253,142	A	10/1993 Wang	D422,271	S	4/2000 Kawashima
5,283,862	A	2/1994 Lund	D423,468	S	4/2000 Jenkins
5,305,394	A	4/1994 Tanaka	6,052,279	A	4/2000 Friend et al.
D346,591	S	5/1994 Lee	D424,533	S	5/2000 Kandalepas
5,323,291	A	6/1994 Boyle	D424,535	S	5/2000 Peltola
D355,165	S	2/1995 Sakaguchi et al.	D426,236	S	6/2000 Kim et al.
5,389,745	A	2/1995 Sakamoto	6,102,721	A	8/2000 Seto et al.
D356,550	S	3/1995 Mizusugi et al.	6,115,248	A	9/2000 Canova et al.
5,398,310	A	3/1995 Tchao et al.	D433,672	S	11/2000 Kobayashi
5,401,917	A	3/1995 Yoshida et al.	D436,963	S	1/2001 Kim et al.
5,422,442	A	6/1995 Gouda et al.	6,178,087	B1	1/2001 Cho et al.
5,430,248	A	7/1995 Levy	6,195,589	B1	2/2001 Ketcham
5,434,929	A	7/1995 Beernink et al.	D440,542	S	4/2001 Hawkins et al.
5,444,192	A	8/1995 Shetye et al.	6,219,256	B1	4/2001 Wu
5,448,433	A	9/1995 Morehouse et al.	D442,156	S *	5/2001 Lee D14/138 G
5,452,371	A	9/1995 Bozinovic et al.	6,239,968	B1	5/2001 Kim et al.
5,476,336	A	12/1995 Osiecki et al.	6,307,537	B1	10/2001 Oowada
D366,220	S	1/1996 Sakamoto	D450,313	S	11/2001 Koinuma
D366,463	S	1/1996 Ive et al.	D456,289	S	4/2002 Laverick
5,489,924	A	2/1996 Shima et al.	D456,794	S	5/2002 Laverick et al.
D368,079	S	3/1996 Ive et al.	D456,798	S	5/2002 Kolinen
5,506,749	A	4/1996 Matsuda	6,392,639	B1	5/2002 Lee et al.
5,528,743	A	6/1996 Tou et al.	D459,332	S	6/2002 Peiker
5,534,892	A	7/1996 Tagawa	D461,185	S	8/2002 Ando
5,548,477	A	8/1996 Kumar et al.	D463,788	S	10/2002 Smith et al.
5,550,715	A	8/1996 Hawkins et al.	D466,504	S	12/2002 Masuda et al.
5,555,157	A	9/1996 Moller et al.	D467,918	S	12/2002 Fitch et al.
5,564,850	A	10/1996 Nagaoka	D469,061	S	1/2003 Porter
5,576,502	A	11/1996 Fukushima et al.	D472,894	S	4/2003 Kim et al.
5,615,284	A	3/1997 Rhyne et al.	D476,328	S	6/2003 Miao et al.
5,621,817	A	4/1997 Bozinovic et al.	D476,329	S	6/2003 Miao et al.
5,630,148	A	5/1997 Norris	D477,596	S	7/2003 Hayes
5,635,682	A	6/1997 Cherdak et al.	D479,234	S	9/2003 Tanaka et al.
5,638,257	A	6/1997 Kumar et al.	D479,513	S	9/2003 Bricaud et al.
5,646,649	A	7/1997 Iwata et al.	D480,374	S	10/2003 Toor et al.
5,657,459	A	8/1997 Yanagisawa et al.	D484,135	S	12/2003 Netzel et al.
D385,299	S	10/1997 Adams	D484,863	S	1/2004 Chan
5,698,822	A	12/1997 Haneda et al.	D485,819	S	1/2004 Ahlgren
5,737,183	A	4/1998 Kobayashi et al.	D488,162	S	4/2004 Korpai
5,757,681	A	5/1998 Suzuki et al.	D488,468	S	4/2004 Hu
5,786,061	A	7/1998 Banfield	D491,158	S	6/2004 Mou et al.
D397,679	S	9/1998 Hawkins et al.	D492,657	S	7/2004 Jensfelt
5,810,461	A	9/1998 Ive et al.	D493,451	S	7/2004 Wada
5,818,182	A	10/1998 Viswanadham	D494,151	S	8/2004 Walliser et al.
5,821,510	A	10/1998 Cohen et al.	6,785,395	B1	8/2004 Arneson et al.
5,831,613	A	11/1998 Johnston et al.	D496,642	S	9/2004 Harries et al.
5,841,901	A	11/1998 Arai et al.	D496,655	S	9/2004 Harries et al.
5,848,298	A	12/1998 Steere, Jr. et al.	D496,921	S	10/2004 Hwang
5,873,372	A	2/1999 Honeycutt	D500,992	S	1/2005 Shen et al.
5,889,512	A	3/1999 Moller et al.	6,842,335	B1	1/2005 Hanson et al.
D408,021	S	4/1999 Haitani et al.	D501,475	S	2/2005 Kim
D408,372	S	4/1999 Ota et al.	D502,703	S	3/2005 Tsujimoto et al.
5,894,425	A	4/1999 Saliba	D506,754	S	6/2005 Schlieffers et al.
5,898,568	A	4/1999 Cheng	D508,046	S	8/2005 Suzuki
D410,440	S	6/1999 Carnell	D509,215	S	9/2005 Han et al.
D410,468	S	6/1999 Kazama	6,950,516	B2	9/2005 Piria et al.
D411,179	S	6/1999 Toyosato	D511,342	S	11/2005 Chien
D411,181	S	6/1999 Tamaki et al.	D513,503	S	1/2006 Huang
5,913,629	A	6/1999 Hazzard	D513,741	S	1/2006 Jensfelt
5,914,708	A	6/1999 LaGrange et al.	D515,059	S	2/2006 Wu
5,941,648	A	8/1999 Robinson	D517,555	S	3/2006 Disch
5,942,177	A	8/1999 Banfield	D518,820	S	4/2006 Hawkins et al.
5,953,205	A	9/1999 Kambayashi et al.	D519,094	S	4/2006 Helin
D416,001	S	11/1999 Tal et al.	D519,502	S	4/2006 Hawkins et al.
D417,657	S	12/1999 Matsumoto	D519,998	S	5/2006 Park
5,996,956	A	12/1999 Shawver	D521,023	S	5/2006 Kim et al.
5,999,827	A	12/1999 Sudo et al.	D524,786	S	7/2006 Paradise et al.
D420,987	S	2/2000 Miyahara et al.	D525,225	S	7/2006 Lee
6,028,765	A	2/2000 Swindler et al.	D526,300	S	8/2006 Lee
6,032,866	A	3/2000 Knighton et al.	D528,095	S	9/2006 Kwon et al.
6,034,685	A	3/2000 Kuriyama et al.	D528,532	S	9/2006 Dimitriadis et al.
			D528,542	S	9/2006 Luminosu et al.
			7,102,620	B2	9/2006 Harries et al.

US D613,743 S

D529,471 S 10/2006 Park
D529,488 S 10/2006 Uchida
D529,891 S 10/2006 Hyun et al.
D529,909 S 10/2006 Daw et al.
D530,698 S 10/2006 Lee et al.
D532,440 S 11/2006 Oas
7,145,766 B2 12/2006 Homer et al.
D538,252 S 3/2007 Joung
D539,257 S 3/2007 Obata et al.
D539,306 S 3/2007 Naruki
D539,775 S 4/2007 Park et al.
D539,778 S 4/2007 Yeh et al.
D540,765 S 4/2007 Pritchard et al.
D541,247 S 4/2007 Lee et al.
D541,290 S 4/2007 Swanson et al.
7,205,959 B2 4/2007 Henriksson
D542,257 S 5/2007 Ahn et al.
D542,765 S 5/2007 Cho et al.
D543,171 S 5/2007 Kim et al.
D543,177 S 5/2007 Kim et al.
D543,966 S 6/2007 Peng et al.
D543,967 S 6/2007 Peng
D545,289 S 6/2007 Wang
7,231,208 B2 6/2007 Robertson et al.
D546,795 S 7/2007 Kim et al.
D546,806 S 7/2007 Cho et al.
D547,296 S 7/2007 Lin
D548,218 S 8/2007 Hong et al.
D548,717 S 8/2007 Davis
D548,732 S 8/2007 Cebe et al.
D549,200 S 8/2007 Park et al.
D549,205 S 8/2007 Cho
D549,679 S 8/2007 Park et al.
D550,182 S 9/2007 Kim et al.
D550,641 S 9/2007 Wang
D552,069 S 10/2007 Lee et al.
D552,582 S 10/2007 Moon et al.
D554,097 S 10/2007 Lee
D554,634 S 11/2007 Huang
D555,132 S 11/2007 Kim et al.
D555,133 S 11/2007 Kim et al.
D555,169 S 11/2007 Shimizu et al.
D555,618 S 11/2007 Mursalie et al.
D555,621 S 11/2007 Seo
D555,624 S 11/2007 Lee et al.
D556,177 S 11/2007 Kim et al.
D556,178 S 11/2007 Kim et al.
D556,725 S 12/2007 Kim et al.
D556,749 S 12/2007 Rak et al.
D557,243 S 12/2007 Kim et al.
D557,245 S 12/2007 Kim et al.
D557,246 S 12/2007 Kim et al.
D558,179 S 12/2007 Hansen
7,312,984 B2 12/2007 Richardson et al.
D558,724 S 1/2008 Hsu et al.
D558,756 S * 1/2008 Andre et al. D14/341
D558,757 S * 1/2008 Andre et al. D14/341
D559,223 S 1/2008 Kim et al.
D561,074 S 2/2008 Montijo et al.
D562,283 S 2/2008 Moon et al.
D562,294 S 2/2008 Bang et al.
D562,312 S 2/2008 Hu et al.
D562,790 S 2/2008 Hering et al.
D563,378 S 3/2008 Tseng et al.
D563,415 S 3/2008 Griffin et al.
D564,999 S 3/2008 Richards et al.
D566,094 S 4/2008 Kim et al.
D567,246 S 4/2008 Lam et al.
D567,786 S 4/2008 Lee et al.
D569,823 S 5/2008 Lyles et al.
D569,836 S 5/2008 Han et al.
D570,840 S 6/2008 Rak et al.
D571,795 S 6/2008 Lyles et al.

D572,715 S 7/2008 Gloscia et al.
D579,941 S 11/2008 Matsuoka
D584,262 S * 1/2009 Hu et al. D14/138 AA
D586,800 S * 2/2009 Andre et al. D14/341
D587,667 S * 3/2009 Butan et al. D14/138 AA
D589,922 S * 4/2009 Boyd et al. D14/138 AA
D593,087 S * 5/2009 Andre et al. D14/341
2002/0101707 A1 8/2002 Canova
2003/0157957 A1 8/2003 Wendorff
2004/0150943 A1 8/2004 Rock
2005/0099394 A1 5/2005 Chou et al.
2005/0139498 A1 6/2005 Goros
2005/0264988 A1 12/2005 Nicolosi
2005/0272484 A1 12/2005 Griffin
2006/0007159 A1 1/2006 Lane et al.
2006/0205450 A1 9/2006 Amano et al.
2006/0234785 A1 10/2006 Lee et al.
2006/0265643 A1 11/2006 Saft et al.
2007/0074957 A1 4/2007 Lam et al.
2007/0081303 A1 4/2007 Lam et al.
2008/0026690 A1 1/2008 Foxenland
2008/0039156 A1 2/2008 Lee et al.

FOREIGN PATENT DOCUMENTS

JP	4102607658	9/1998
JP	2001053851	2/2001
WO	DM/054225	2/2000
WO	DM/056735	4/2001
WO	DM/065843	8/2004
WO	WO03/001775	1/2005
WO	DM/067361	9/2005
WO	DM/068501	1/2007

OTHER PUBLICATIONS

Eten glofish M700, announced Nov. 2006, [online], [retrieved on Feb. 20, 2007] 2 pages. Retrieved from Internet <URL: <http://www.gsmarena.com>>.
Eten P300, announced 2nd quarter 2004, [online], [retrieved on Dec. 13, 2007], 2 pages. Retrieved from Internet, <URL: <http://www.gsmarena.com>>.
Handspring Press Release, Introduction of Treo 180, "Handspring Unites Phone, Messaging and PDA in New Treo Communicator," Oct. 15, 2001, 3 pages. www.palm.com/us/pr/hs_archive/101501.html.
Handspring Press Release, Introduction of Treo 600, "Handspring Introduces SmartphoneDesign Innovations With Treo 600 Series," Jun. 18, 2003, 2 pages. www.palm.com/us/company/pr/hs_archive/061803.html.
i-mate POAL, announced Nov. 2006, [online], [retrieved on Feb. 20, 2007], 1 page. Retrieved from Internet, <URL: <http://www.gsmarena.com>>.
InnoStream INNO P10, announced Jun. 2005, [online], [retrieved on Feb. 20, 2007], 2 pages. Retrieved from Internet <URL: <http://www.gsmarena.com>>.
LG KU950, announced Feb. 2007, [online], [retrieved on Feb. 20, 2007] 2 pages. Retrieved from Internet, <URL: <http://www.gsmarena.com>>.
Nokia 6681, announced 1st quarter 2005, [online], [retrieved on Apr. 11, 2008], 3 pages. Retrieved from Internet <URL: <http://www.gsmarena.com>>.
Palm Centro, announced Feb. 2008, [online], [retrieved on Jun. 13, 2008] 2 pages. Retrieved from Internet, <URL: <http://www.gsmarena.com>>.
Palm Treo 500v, announced Sep. 2007, [online], [retrieved on Jun. 13, 2008] 2 pages. Retrieved from Internet <URL: <http://www.gsmarena.com>>.
Sagem my400V, announced Feb. 2007, [online], [retrieved on Apr. 11, 2008] 2 pages. Retrieved from Internet <URL: <http://www.gsmarena.com>>.
Sony Ericsson K550im, announced Feb. 2007, [online], [retrieved on Apr. 11, 2008] 2 pages. Retrieved from Internet, <URL: <http://www.gsmarena.com>>.

- Toshiba G900, announced Feb. 2007, [online], [retrieved on Feb. 20, 2007] 2 pages. Retrieved from Internet <URL: <http://www.gsmarena.com>>.
- Treo 650 photo of product, 1 page, Dec. 8, 2005. Retrieved from Internet <URL: http://www.livingroom.org.au/cameraphone/images/treo_650.jpg>.
- Treo 700p photo of product, Jun. 12, 2006, Retrieved from Internet <URL: <http://www.palminfocenter.com/news/8645/palm-treo-700p-review>> and Treo 700w photo of product, Retrieved from Internet <URL: <http://hopthehip.blogspot.com/2008/03/communication-by-palmone-treo-700w.html>>, 2 pages.
- Treo 90 photo of product, 1 page, Jul. 1, 2002 Retrieved from Internet <URL: http://www.palminfocenter.com/images/img_treo90_061rg.jp>.
- Two photos of Treo 180 (three-quarter view of overall device and view of keyboard & controls) Oct. 15, 2001.
- Two photos of Treo 600 (view of overall device and view of keyboard & controls) Jun. 18, 2003.
- Bursky, "Evolving DSP chips do more", *Electronic Design*, Vol. 38, No. 23, pp. 51-59, Dec. 1990.
- Dayton, "FRx extends reporting power of Platinum Series", *PC Week*, vol. 8, No. 5, p. 292(2), Feb. 1991.
- Feigel, "IBM Motorola preview embedded Power PCs; 403 and 505 processors combine strong performance with low cost", *Microprocessor Report*, vol. 8, No. 6, pp. 1-5, May 1994.
- Final Office Action for matter 10/080,437 dated Sep. 16, 2004 (Palm.P0906).
- Final Office Action for matter 10/080,437 dated Aug. 16, 2005 (Palm.P0906).
- Final Office Action for matter 11/948,838 dated Apr. 13, 2009 (PALM.P0993).
- Final Office Action for matter 10/080,437 dated Dec. 29, 2003 (Palm.P0906).
- Forbes et al., "Palm PCs get a Big Hand (What's Hot)", *Windows Magazine*, No. 905, p. 96 May 1998.
- Gary et al., "Efficient MC68HC08 programming reducing cycle count and improving code density", *Dr. Donn' Journal*, vol. 290, No. 5, May 1995, pp. 70-75.
- International Search Report and Written Opinion of the International Searching authority in International Application PCT/US2006/038790, European Patent Office. Oct. 24, 2007, 18 pgs.
- Non-Final Office Action for matter 10/080,437 dated Jan. 14, 2005 (Palm.P0906).
- Non-Final Office Action for matter 10/080,437 dated Apr. 14, 2004 (Palm.P0906).
- Non-Final Office Action for matter 10/080,437 dated Aug. 22, 2003 (Palm.P0906).
- Non-Final Office Action for matter 11/385,241 dated Oct. 3, 2006 (Palm.P0906c1).
- Non-Final Office Action for matter 11/948/838 dated Aug. 26, 2008 (Palm.p0993).
- Notice of Allowance for matter 10/080,437 dated Nov. 25, 2005 (Palm.p0906).
- Notice of Allowance for matter 11/385,241 dated Nov. 2, 2007 (Palm.P0906C1).
- Palm LifeDrive Quicktrain.qxd. Dec. 6, 2005, 3 pgs.
- Penwarden, "More Muscle for HP's OmniBook", *Windows Magazine*, No. 501, p. 110, Jan. 1994.
- Ruley et al., "Handheld-to-Handheld Combat", *Windows Magazine*, No. 911, p. 55, Nov. 1997.
- U.S. Appl. No. 60/113,181, entitled "Detachable Case for an Electronic Organizer," by Daniel S. Kim et al., filed Dec. 21, 1998, 37 pages.

* cited by examiner

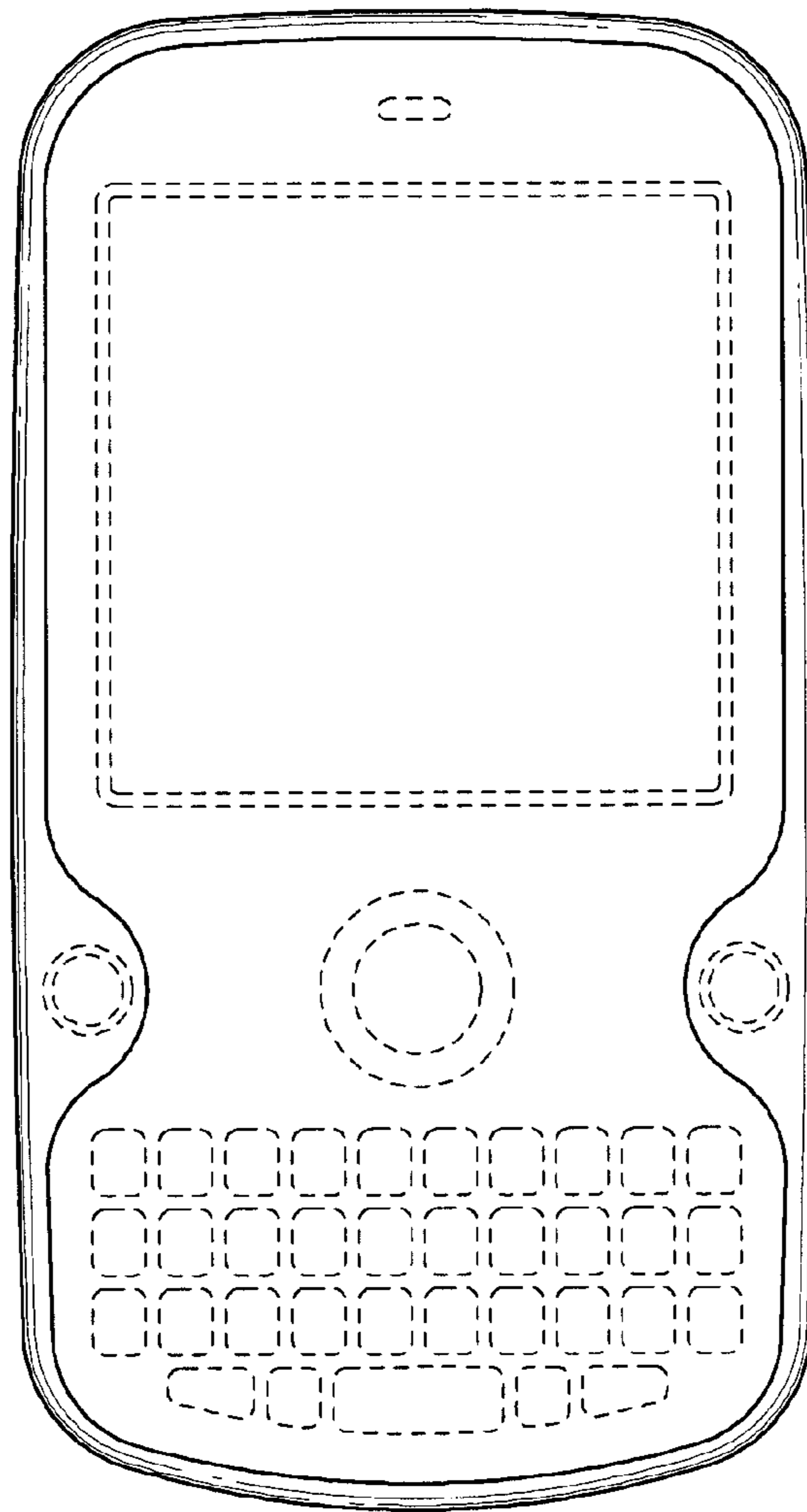


FIG.1

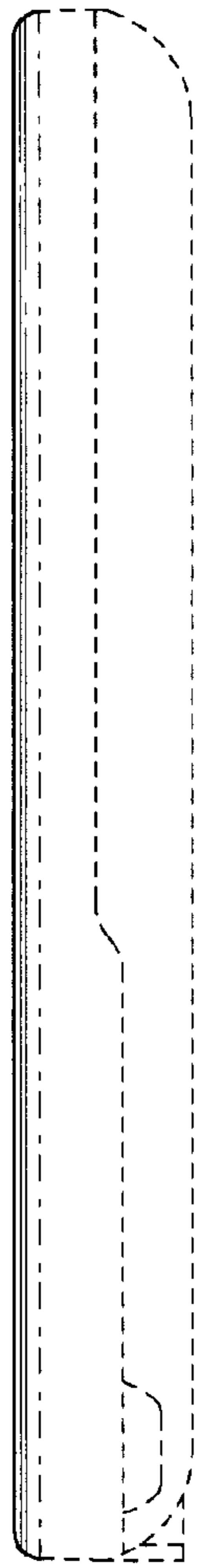


FIG. 2

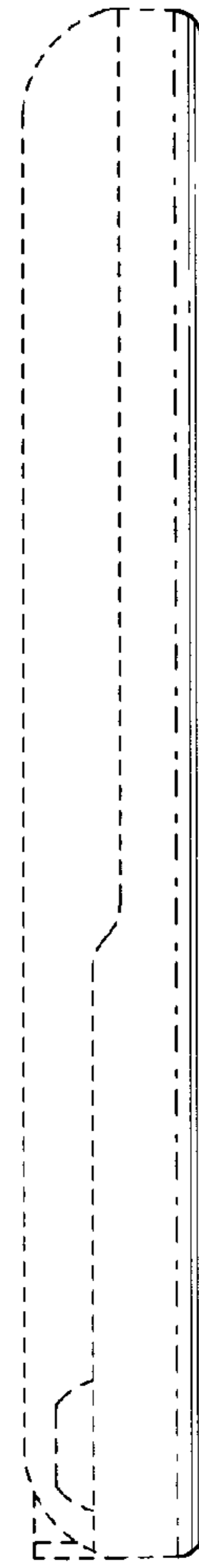


FIG. 3

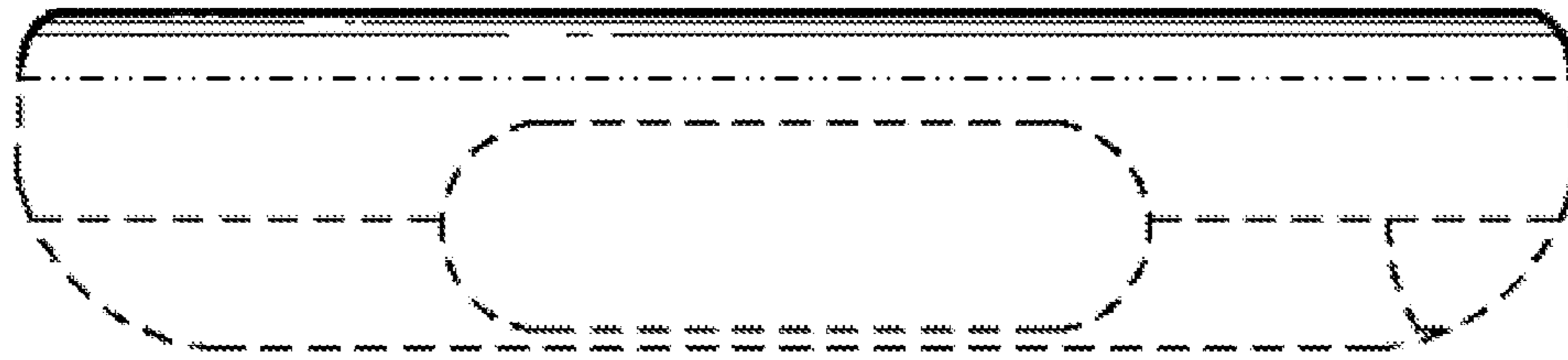


FIG. 4

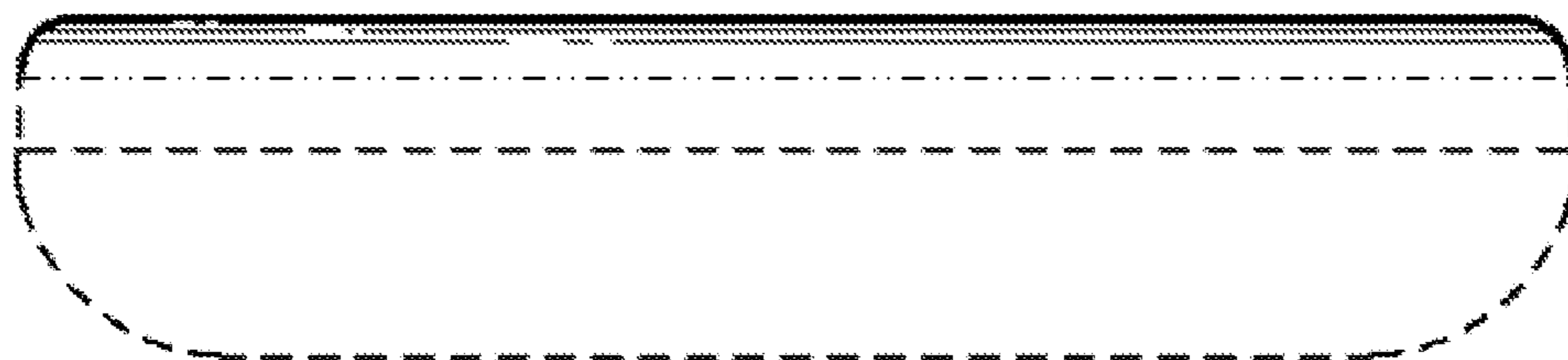


FIG. 5