US00D885436S

(12) United States Design Patent

Mangum et al.

(10) Patent No.: US D885,436 S
(45) Date of Patent: ** May 26, 2020

(54) **PANEL OF A VOICE INTERFACE DEVICE**

(71) Applicant: **GOOGLE LLC**, Mountain View, CA (US)

(72) Inventors: **Kristen Mangum**, San Mateo, CA (US); **Amy Martin**, San Francisco, CA (US); **Micah Collins**, Mountain View, CA (US); **Michael Sundermeyer**, Palo Alto, CA (US); **Jung Geun Tak**, Millbrae, CA (US)

(73) Assignee: **GOOGLE LLC**, Mountain View, CA (US)

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

(21) Appl. No.: **29/655,975**

(22) Filed: **Jul. 9, 2018**

Related U.S. Application Data

(63) Continuation of application No. 15/592,120, filed on May 10, 2017, now Pat. No. 10,304,450, and a continuation of application No. 29/564,663, filed on May 13, 2016, now Pat. No. Des. 822,716.

(51) **LOC (12) Cl.** **14-03**

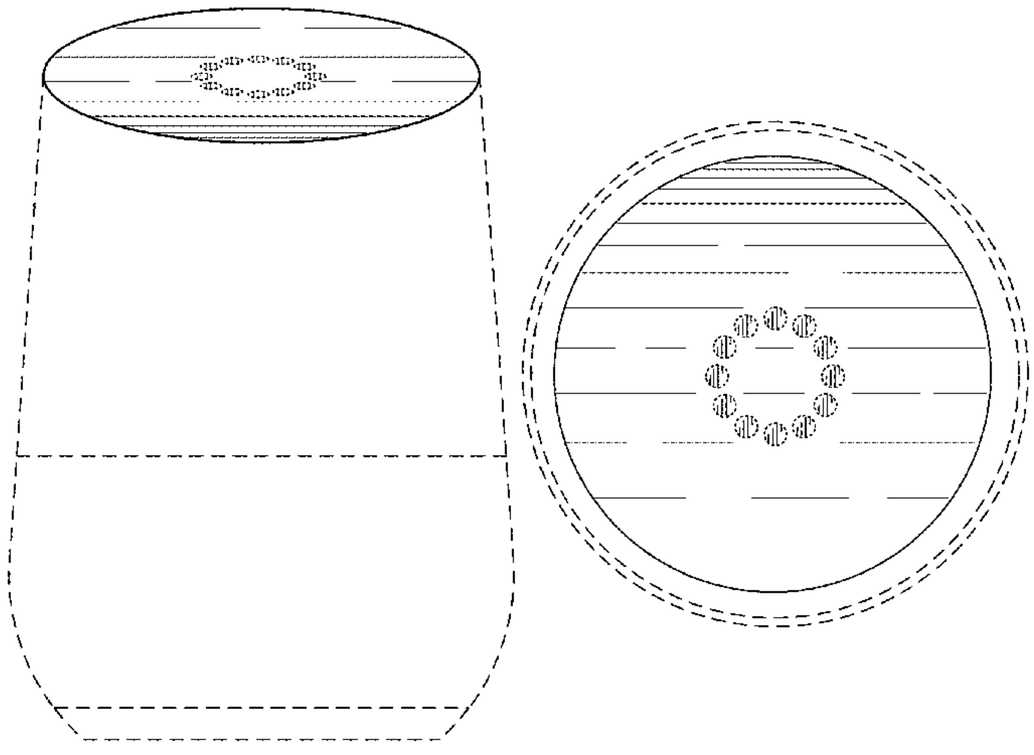
(52) **U.S. Cl.**
USPC **D14/496**; D14/172; D14/358

(58) **Field of Classification Search**
USPC ... D14/140, 141.1, 142, 144, 147, 149, 150, D14/168, 172, 204, 209.1, 211, 212, 213, D14/215, 216, 221, 240, 242, 243, 299, D14/496, 356, 358, 225, 226, 227, 228, D14/357, 203.1, 203.2; D13/108, 110, D13/133; D10/46, 75, 104.1, 106.1, D10/106.2, 106.3, 106.5, 106.6, 106.92, D10/106.93, 114.6, 114.9; D23/351, 355, D23/360, 364, 366; D9/537; D7/608
CPC . H04R 1/00; H04R 1/02; H04R 1/021; H04R 1/028; H04R 1/04; G06F 3/16; G06F 3/162; G06F 3/167; G06F 17/00; G06F 17/20; G06F 17/27; G06F 17/30002; G06F 1/16; G08B 5/36; H05K 5/0217; G10L 15/00; G10L 15/28; G10L 17/00; G10L 17/005
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D234,606	S		3/1975	Gamble	
D302,011	S		7/1989	Yoshiharu	
D325,594	S	*	4/1992	Ditzig	D10/22
D338,837	S	*	8/1993	Ungacta	D10/23
D346,125	S	*	4/1994	Cote	D10/104.2
D347,584	S	*	6/1994	Vogelpohl	D10/49
D347,796	S	*	6/1994	Wolff	D10/22
D366,875	S		2/1996	Kakizaki	
D376,364	S		12/1996	Boothroyd et al.	
D378,278	S	*	3/1997	McGraw	D10/15
5,659,665	A		8/1997	Whelpley, Jr.	
5,774,859	A		6/1998	Houser et al.	
D407,652	S	*	4/1999	Wu	D10/2
D408,355	S		4/1999	Welsh et al.	
D411,805	S	*	7/1999	McDowell	D10/2
D416,492	S	*	11/1999	Peters	D10/126
D423,973	S	*	5/2000	Labatt	D10/106.1
D438,847	S	*	3/2001	Hasegawa	D14/412
6,208,593	B1	*	3/2001	Liao	G04B 19/32 368/228
D443,830	S	*	6/2001	Young	D10/2
D446,785	S	*	8/2001	Ohta	D14/216
D448,017	S	*	9/2001	Hasbrook	D14/216
D449,828	S		10/2001	Pardo et al.	
D451,417	S	*	12/2001	Simu-Brown	D10/106.1
D451,962	S	*	12/2001	Thornton	D19/78
D452,509	S	*	12/2001	Allsop	D14/458
D457,285	S	*	5/2002	Reidenbach	D99/34
6,397,186	B1		5/2002	Bush et al.	
D461,178	S		8/2002	Solland	
D464,415	S		10/2002	Saunders et al.	
D465,484	S		11/2002	Christianson	
D466,029	S		11/2002	Joss et al.	
D467,904	S		12/2002	Solland	
D470,475	S		2/2003	Solland	
D476,588	S	*	7/2003	Lee	D10/104.1
D484,491	S		12/2003	Solland	
D484,871	S		1/2004	Solland	
D485,269	S		1/2004	Jones et al.	
D488,800	S		4/2004	Wiener	
D496,451	S		9/2004	Julos et al.	
D510,885	S	*	10/2005	Dueker	D10/114.2
D515,957	S	*	2/2006	Dueker	D10/109.1



D515,958	S *	2/2006	Dueker	D10/109.1
D518,026	S	3/2006	Dayan	
7,180,830	B1 *	2/2007	Cotsen	G04B 19/10 368/223
D542,279	S *	5/2007	Chan	D14/216
D544,593	S	6/2007	Yamamoto	
D548,317	S	8/2007	Newton et al.	
7,260,538	B2	8/2007	Calderone et al.	
D560,017	S	1/2008	Morris et al.	
D570,829	S	6/2008	Matsuoka	
D571,787	S	6/2008	Hwa-jei	
D580,269	S	11/2008	Xiao et al.	
D584,289	S	1/2009	Lee	
D584,290	S	1/2009	Lee	
D584,308	S	1/2009	Johnson, Jr.	
D593,990	S	6/2009	Xie	
D597,192	S	7/2009	Drucker et al.	
D598,932	S	8/2009	Ryu et al.	
D603,374	S	11/2009	Peters	
D609,718	S *	2/2010	Chang	D14/496
D610,572	S	2/2010	Skurdal	
D610,573	S	2/2010	Joseph	
7,660,715	B1	2/2010	Thambiratnam	
D611,433	S *	3/2010	Tang	D13/168
D613,844	S	4/2010	Jorgensen	
D614,917	S	5/2010	Calco	
7,721,313	B2	5/2010	Barrett	
D619,995	S	7/2010	Jha	
D625,295	S	10/2010	Nogueira et al.	
D626,876	S *	11/2010	Jones	D10/124
D628,340	S	11/2010	Krause	
D632,672	S	2/2011	Choi	
D632,771	S	2/2011	Abbondanzio et al.	
D632,772	S	2/2011	Abbondanzio et al.	
D632,773	S	2/2011	Abbondanzio et al.	
D633,190	S	2/2011	Abbondanzio et al.	
D634,733	S	3/2011	Lewis	
D640,976	S *	7/2011	Matsuoka	D13/108
D641,730	S	7/2011	Oota	
D654,761	S	2/2012	Herbst	
8,340,975	B1	12/2012	Rosenberger	
D675,190	S	1/2013	Nylen	
D675,304	S	1/2013	Valentino et al.	
8,400,883	B2 *	3/2013	Lin	G04C 17/0091 368/228
D687,809	S *	8/2013	Bergmann	D14/209.1
D689,846	S	9/2013	Nylen	
D689,998	S	9/2013	Carbone et al.	
D691,587	S	10/2013	Ferber et al.	
D691,965	S	10/2013	Bedolla et al.	
D692,413	S	10/2013	Holzer	
D694,746	S	12/2013	Akana et al.	
D695,713	S	12/2013	Szymanski	
D696,761	S	12/2013	Jorgensen	
D697,046	S	1/2014	Hanna	
D697,054	S	1/2014	Li et al.	
D697,074	S *	1/2014	Waldman	D14/485
D711,352	S	8/2014	Szymanski	
D711,353	S	8/2014	Szymanski	
D714,667	S	10/2014	Sheridan	
D715,249	S	10/2014	Zhou	
D716,254	S	10/2014	O'Brien et al.	
D724,060	S	3/2015	Ahn et al.	
D725,076	S	3/2015	Wong	
D725,077	S	3/2015	Wong	
D725,285	S *	3/2015	Wohlstadter	D14/336
D725,632	S	3/2015	Zhao	
D726,156	S	4/2015	Gillespie-Brown et al.	
D726,161	S	4/2015	Howard et al.	
D726,672	S *	4/2015	Olodort	D14/138 G
D729,772	S	5/2015	Ferber et al.	
D729,923	S	5/2015	Chou	
D731,465	S	6/2015	Khubani	
D732,653	S	6/2015	Hsiao	
D733,859	S	7/2015	Hsiao	
D734,740	S	7/2015	Erbeus	
D735,163	S	7/2015	Valeur	
D739,397	S	9/2015	Akana et al.	
D740,750	S *	10/2015	Mayden	D13/108
D743,819	S *	11/2015	Golnik	D10/70
D744,541	S	12/2015	Langhammer et al.	
D748,078	S	1/2016	Nardin et al.	
D752,552	S	3/2016	D'Ascanio et al.	
9,338,493	B2	5/2016	Van Os et al.	
D758,347	S	6/2016	Hinokio	
D760,221	S	6/2016	Maruyama et al.	
D761,676	S *	7/2016	Golnik	D10/103
D764,952	S *	8/2016	Virhia	D10/46
9,424,840	B1	8/2016	Hart	
D766,213	S	9/2016	Hinokio	
D766,878	S	9/2016	Park et al.	
9,443,527	B1	9/2016	Watanabe et al.	
D768,631	S *	10/2016	Epstein	D14/388
D770,416	S	11/2016	Tkachuk et al.	
D771,141	S	11/2016	Langhammer et al.	
D771,142	S	11/2016	Langhammer et al.	
D772,391	S	11/2016	Zimmerli	
D776,087	S	1/2017	Powers et al.	
9,554,632	B2	1/2017	Tarnow et al.	
D778,178	S *	2/2017	Lee	D10/38
D778,878	S	2/2017	de Vaal	
D779,193	S *	2/2017	Jusino	D11/3
D780,728	S	3/2017	Shin et al.	
D781,798	S	3/2017	Klepper et al.	
D781,918	S	3/2017	Langhammer et al.	
D783,002	S *	4/2017	Pool	D14/218
D786,200	S	5/2017	Lagerstedt et al.	
D786,724	S *	5/2017	Seagle, Jr.	D10/106.1
D787,474	S *	5/2017	Yap	D14/218
D792,220	S *	7/2017	Simons	D7/396.2
D792,468	S	7/2017	Langhammer et al.	
D793,356	S *	8/2017	Hardi	D14/205
9,721,570	B1	8/2017	Beal	
D797,073	S	9/2017	Yoon et al.	
D797,087	S	9/2017	Burton et al.	
D800,702	S	10/2017	Muller	
9,794,613	B2	10/2017	Jang et al.	
D803,073	S *	11/2017	Ji	D10/52
D803,938	S *	11/2017	Fyke	D19/59
D804,531	S *	12/2017	Beck	D14/496
D804,533	S *	12/2017	Mangum	D14/496
D806,072	S *	12/2017	Gummalla	D14/358
D808,437	S *	1/2018	Hubbard-Cummins	D15/7
D808,926	S *	1/2018	Kim	D14/216
D808,928	S *	1/2018	Schaal	D14/216
D810,134	S *	2/2018	Langhammer	D14/496
D810,135	S *	2/2018	Langhammer	D14/496
D810,136	S *	2/2018	Langhammer	D14/496
D812,686	S *	3/2018	Fyke	D19/59
D815,149	S *	4/2018	Langhammer	D14/496
D817,793	S *	5/2018	Vu	D10/70
D818,853	S *	5/2018	Golnik	D10/70
9,967,644	B2	5/2018	Chawan et al.	
D820,238	S *	6/2018	Boshernitzan	D14/218
9,990,002	B2	6/2018	Kim	
D822,716	S *	7/2018	Mangum	D14/496
10,026,401	B1	7/2018	Mutagi et al.	
D829,242	S *	9/2018	Laine	D14/496
D829,335	S *	9/2018	Park	D24/215
D829,688	S *	10/2018	Tanaka	D14/216
D829,714	S *	10/2018	Robinson	D14/356
D830,856	S *	10/2018	Golnik	D10/30
D830,858	S *	10/2018	Rogers	D10/41
D835,062	S *	12/2018	Langhammer	D14/496
D836,606	S *	12/2018	Kangasmaa	D14/216
D838,255	S *	1/2019	Wang	D14/204
D840,436	S *	2/2019	Demin	D14/496
D843,419	S *	3/2019	Vaclavik	D14/496
D845,276	S *	4/2019	Huang	D14/216
D846,598	S *	4/2019	Wang	D14/496
D848,398	S *	5/2019	Huang	D14/216
D855,583	S *	8/2019	Capecelatro	D14/216
D857,648	S *	8/2019	Okuley	D14/204
D857,650	S *	8/2019	Hardi	D14/205
D864,150	S *	10/2019	Kim	D14/204
10,448,520	B2 *	10/2019	Tak	H05K 5/0217
D866,520	S *	11/2019	Kim	D14/216
D866,521	S *	11/2019	Kim	D14/216

D867,332	S *	11/2019	Xiao	D14/209.1
D868,034	S *	11/2019	Summerson	D14/216
D869,463	S *	12/2019	Gagne-Keats	D14/358
D870,704	S *	12/2019	Leung	D14/216
D873,244	S *	1/2020	Lee	D14/216
10,535,966	B2 *	1/2020	Tak	H01R 13/6205
D877,121	S *	3/2020	Gurkin	D14/214
D879,152	S *	3/2020	McWilliam	D14/496
2005/0033582	A1	2/2005	Gadd	
2006/0075429	A1	4/2006	Istavan et al.	
2006/0276230	A1	12/2006	McConnell	
2007/0192486	A1	8/2007	Wilson et al.	
2007/0198267	A1	8/2007	Jones	
2008/0010652	A1	1/2008	Booth	
2008/0065388	A1	3/2008	Cross	
2008/0167860	A1	7/2008	Goller	
2008/0180572	A1	7/2008	Pickett et al.	
2008/0208569	A1	8/2008	Simpson	
2008/0228496	A1	9/2008	Yu	
2009/0100478	A1	4/2009	Craner	
2009/0178071	A1	7/2009	Whitehead	
2009/0319276	A1	12/2009	Chang et al.	
2010/0064218	A1	3/2010	Bull	
2010/0240307	A1	9/2010	Sims	
2010/0250239	A1	9/2010	Itakura	
2010/0265397	A1	10/2010	Dasher et al.	
2011/0161076	A1	6/2011	Davis	
2011/0161085	A1	6/2011	Boda	
2011/0283243	A1	11/2011	Eckhardt et al.	
2011/0311206	A1	12/2011	Hubner	
2012/0035924	A1	2/2012	Jitkoff	
2012/0046773	A1	2/2012	Gui et al.	
2012/0096497	A1	4/2012	Xiong et al.	
2012/0132094	A1	5/2012	Schwipps	
2012/0140475	A1 *	6/2012	Huang	F21V 33/0052 362/253
2012/0198339	A1	8/2012	Williams	
2012/0226981	A1	9/2012	Clavin	
2012/0239661	A1	9/2012	Giblin	
2012/0253822	A1	10/2012	Schalk	
2012/0260192	A1	10/2012	Detweiler	
2012/0265528	A1	10/2012	Gruber	
2013/0138424	A1	5/2013	Koenig	
2013/0290110	A1	10/2013	LuVogt	
2013/0322634	A1	12/2013	Bennett	
2013/0339850	A1	12/2013	Hardi et al.	
2014/0006483	A1	1/2014	Garmark et al.	
2014/0074483	A1	3/2014	Van Os	
2014/0108019	A1	4/2014	Ehsani	
2014/0125271	A1	5/2014	Wang	
2014/0244266	A1	8/2014	Brown	
2014/0244568	A1	8/2014	Goel	
2014/0257788	A1	9/2014	Xiong et al.	
2014/0278435	A1	9/2014	Ganong, III et al.	
2014/0297268	A1	10/2014	Govrin	
2014/0317502	A1	10/2014	Brown et al.	
2014/0333449	A1	11/2014	Thiesfeld et al.	
2014/0365226	A1	12/2014	Sinha	
2014/0365887	A1	12/2014	Cameron	
2015/0006182	A1	1/2015	Schmidt	
2015/0066510	A1	3/2015	Bohrer et al.	
2015/0097666	A1	4/2015	Boyd et al.	
2015/0112985	A1	4/2015	Roggero et al.	
2015/0154976	A1	6/2015	Mutagi	
2015/0162006	A1	6/2015	Kummer	
2015/0169284	A1	6/2015	Quast et al.	
2015/0199566	A1	7/2015	Moore et al.	
2015/0261496	A1	9/2015	Faaborg et al.	
2015/0331666	A1	11/2015	Bucsa et al.	
2015/0365787	A1	12/2015	Farrell	
2016/0179462	A1	6/2016	Bjorkengren	
2016/0323343	A1	11/2016	Sanghavi et al.	
2017/0180499	A1	6/2017	Gelfenbeyn et al.	
2017/0262537	A1	9/2017	Harrison et al.	
2017/0270927	A1	9/2017	Brown	
2017/0300831	A1	10/2017	Gelfenbeyn et al.	
2017/0329766	A1	11/2017	Matsuyama	
2017/0339444	A1	11/2017	Shaw et al.	
2017/0347477	A1	11/2017	Avital	
2018/0004482	A1	1/2018	Johnston et al.	
2018/0097323	A1 *	4/2018	Tak	H01R 13/6205
2018/0098439	A1 *	4/2018	Tak	H04R 1/02
2019/0068771	A1 *	2/2019	Cutler	G04G 21/04
2019/0104373	A1 *	4/2019	Wodrich	H04R 29/001

FOREIGN PATENT DOCUMENTS

JP	1484171	S	11/2013
JP	1501227		6/2014
JP	1552869		6/2016
JP	1562601	S	11/2016
JP	1562625	S	11/2016
JP	1562626	S	11/2016
JP	1566647	S	1/2017
JP	1567112		1/2017
JP	1573122		4/2017
KR	3020150011271		5/2016
WO	2012103321	A2	8/2012
WO	2014001914	A2	1/2014
WO	2014064531	A1	5/2014

OTHER PUBLICATIONS

Ankers new Alexa smart speaker is a dirt-cheap Echo Dot. cnet.com. (online) 6 pgs. Posted: Aug. 9, 2017. [Retrieved on Jul. 22, 2019] https://www.cnet.com/reviews/eufy-genie-preview/.*

Echo Input_Bring Alexa to your own speaker. amazon.com. (online) 10 pgs. Earliest Review: Dec. 17, 2018. [Retrieved on Jul. 22, 2019] https://www.amazon.com/Echo-Input-Bring-Alexa-speaker/dp/B07BFRHZLB.*

LG WK7 ThinQ speaker initial review_ LGs speaker has the smarts. [online] 6 pgs. Posted Apr. 2018 [Retrieved on Aug. 20, 2019] https://www.pocket-lint.com/smart-home/reviews/lg/144282-lg-wk7-thinq-review-google-assistant-meridian-speaker.*

Review—Google Home Smart Speaker—A Good Start. [online] 15 pgs. Posted Dec. 22, 2016. [Retrieved on Sep. 23, 2019] https://www.custompcreview.com/reviews/google-home-smart-speaker-review-a-good-start/.*

Belkin Baby Moniter[sic]. (online) 8 pg. available as early as Dec. 2012. [retrieved Mar. 25, 2020] https://www.amazon.com/Belkin-Baby-Moniter-Discontinued-Manufacturer/dp/B009PK95RA?th=1.*

Voice Interface Device. (Design—© Questel). orbit.com. [online PDF] 32 pgs. Print Dates range Nov. 7, 2016 through Jan. 5, 2017 [retrieved on Aug. 10, 2017] https://sobjprd.guestellr/export/OPTUJ214/pdf2/48508ae1-25ff-4c2d-9870-eda2187e4f40-225925.pdf.

Google Inc., CN App. No. 201630564454.1, First Office Action, dated Jul. 19, 2017, 2 pgs.

Japanese Notice of Grant for Japanese Patent Application No. 2019-018029, 3 pages.

Google LLC, International Preliminary Report on Patentability, PCT/US2017/032002, Nov. 13, 2018, 7 pgs.

Google LLC, International Search Report/Written Opinion, PCT/US2017/032002, Aug. 25, 2017, 9 pgs.

Google LLC, International Preliminary Report on Patentability, PCT/US2017/032511, Nov. 13, 2018, 6 pgs.

Google Inc., International Search Report/Written Opinion, PCT/US2017/032511, Jul. 21, 2017, 8 pgs.

Google LLC, International Preliminary Report on Patentability, PCT/US2017/032262, Nov. 13, 2018, 8 pgs.

Google Inc., International Search Report/Written Opinion, PCT/US2017/032262, Aug. 24, 2017, 10 pgs.

Google LLC, International Preliminary Report on Patentability, PCT/US2017/032260, Nov. 13, 2018.

Google Inc., International Search Report/Written Opinion, PCT/US2017/032260, Aug. 23, 2017.

Google LLC, International Preliminary Report on Patentability, PCT/US2017/032263, Nov. 13, 2018.

Google Inc., International Search Report/Written Opinion, PCT/US2017/032263, Aug. 23, 2017, 10 pgs.

"Goods Press", No. 8, vol. 25, (Aug. 10, 2012), p. 75.

"Rave (House Style)", No. 201, p. 40.
"Global Sources Home Products", No. 12, vol. 9, p. 125.
"ILunar Wireless Music System Rbx-500", p. 3, RBX-500.
"ILunar Wireless Music System RBX-500", p. 6, RBX-500.
Korean Design Trademark Publication, No. 12-15, (Jul. 12, 2012), 30-0651799.
Notice of Grant for Japanese Application No. 2019-009193, 3 pages.

* cited by examiner

Primary Examiner — Marie D. Fast Horse
(74) *Attorney, Agent, or Firm* — Morgan, Lewis & Bockius LLP

(57) **CLAIM**

The ornamental design for a panel of a voice interface device, as shown and described.

DESCRIPTION

This application is related to the following patent applications, each of which is incorporated by reference in its entirety:
U.S. patent application Ser. No. 15/592,126, filed May 10, 2017, titled "Voice-Controlled Closed Caption Display";
U.S. patent application Ser. No. 15/592,128, filed May 10, 2017, titled "Media Transfer among Media Output Devices";
U.S. patent application Ser. No. 15/593,236, filed May 11, 2017, titled "Personalized and Contextualized Audio Briefing"; and
U.S. patent application Ser. No. 15/592,137, filed May 10, 2017, titled "Implementations for Voice Assistant on Devices."

FIG. **1** is a front left ¾view of a panel of a voice interface device showing the new design.
FIG. **2** is a front view of the panel of the voice interface device shown in FIG. **1**.
FIG. **3** is a rear view of the panel of the voice interface device shown in FIG. **1**.
FIG. **4** is a right side view of the panel of the voice interface device shown in FIG. **1**.
FIG. **5** is a top view of the panel of the voice interface device shown in FIG. **1**; and,
FIG. **6** is a bottom view of the panel of the voice interface device shown in FIG. **1**.

Referring to FIGS. **1**, **2** and **5**, the twelve small shaded areas on the top of the panel of the voice interface device form part of the claimed designs. The dotted circles enclosing the twelve small shaded areas do not form part of the claimed design. The different shading within the twelve small shaded areas represents an illuminated surface resulting in a contrast as compared to the area outside of the twelve small shaded areas. All other broken dashed lines in the drawings showing the remaining portions of the voice interface device depict environmental structure only and form no part of the claimed design.

1 Claim, 6 Drawing Sheets

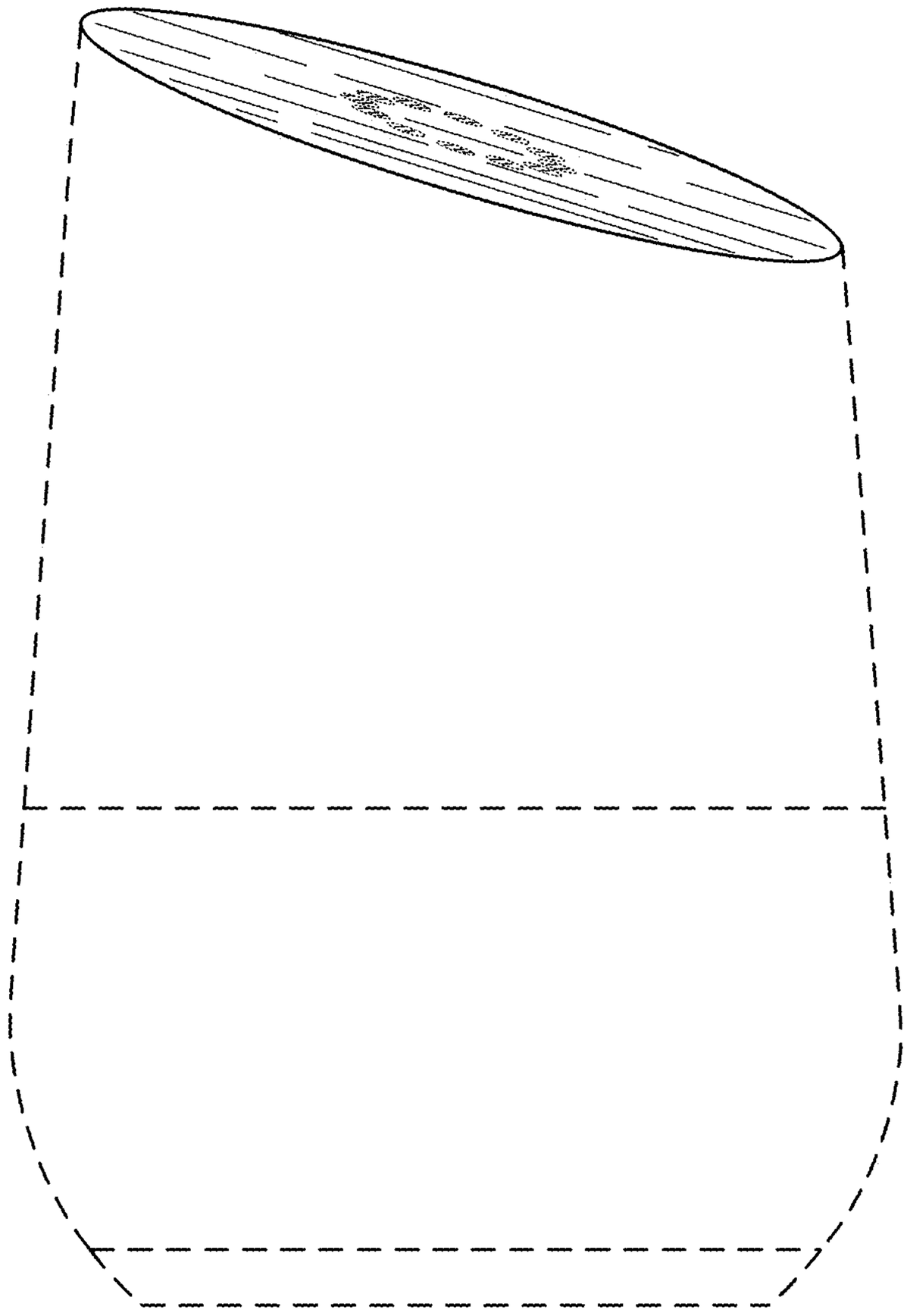


FIG. 1

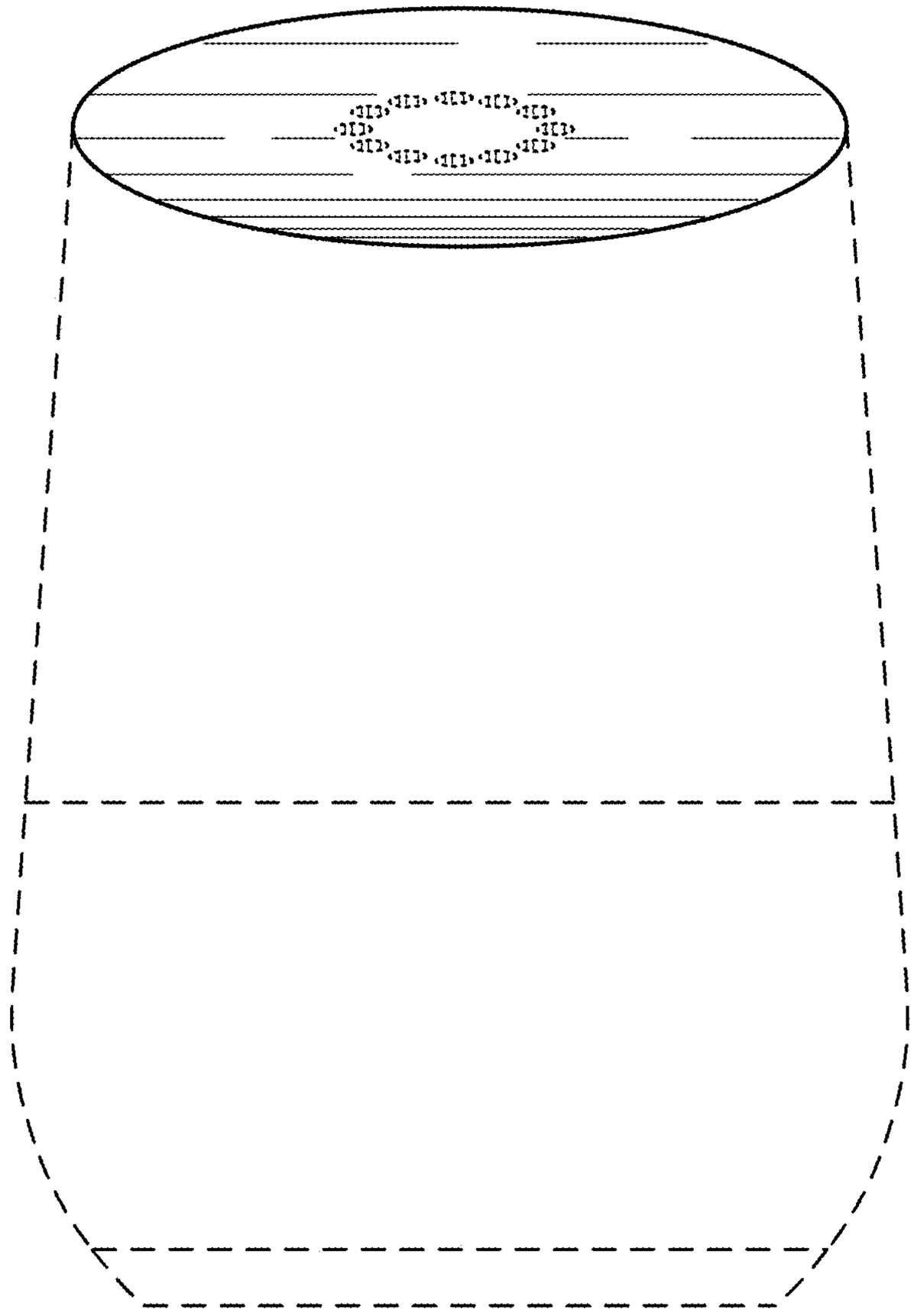


FIG. 2

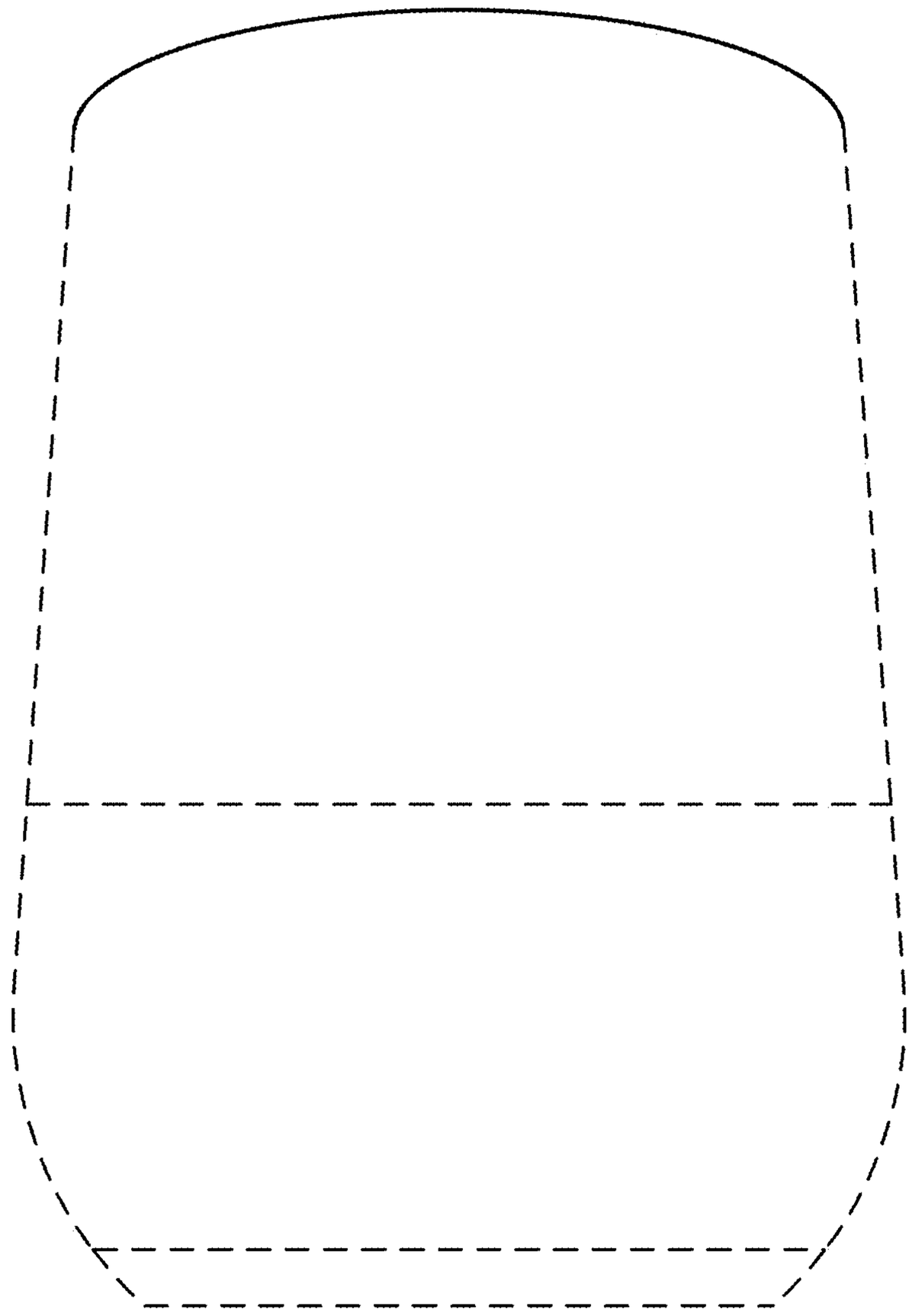


FIG. 3

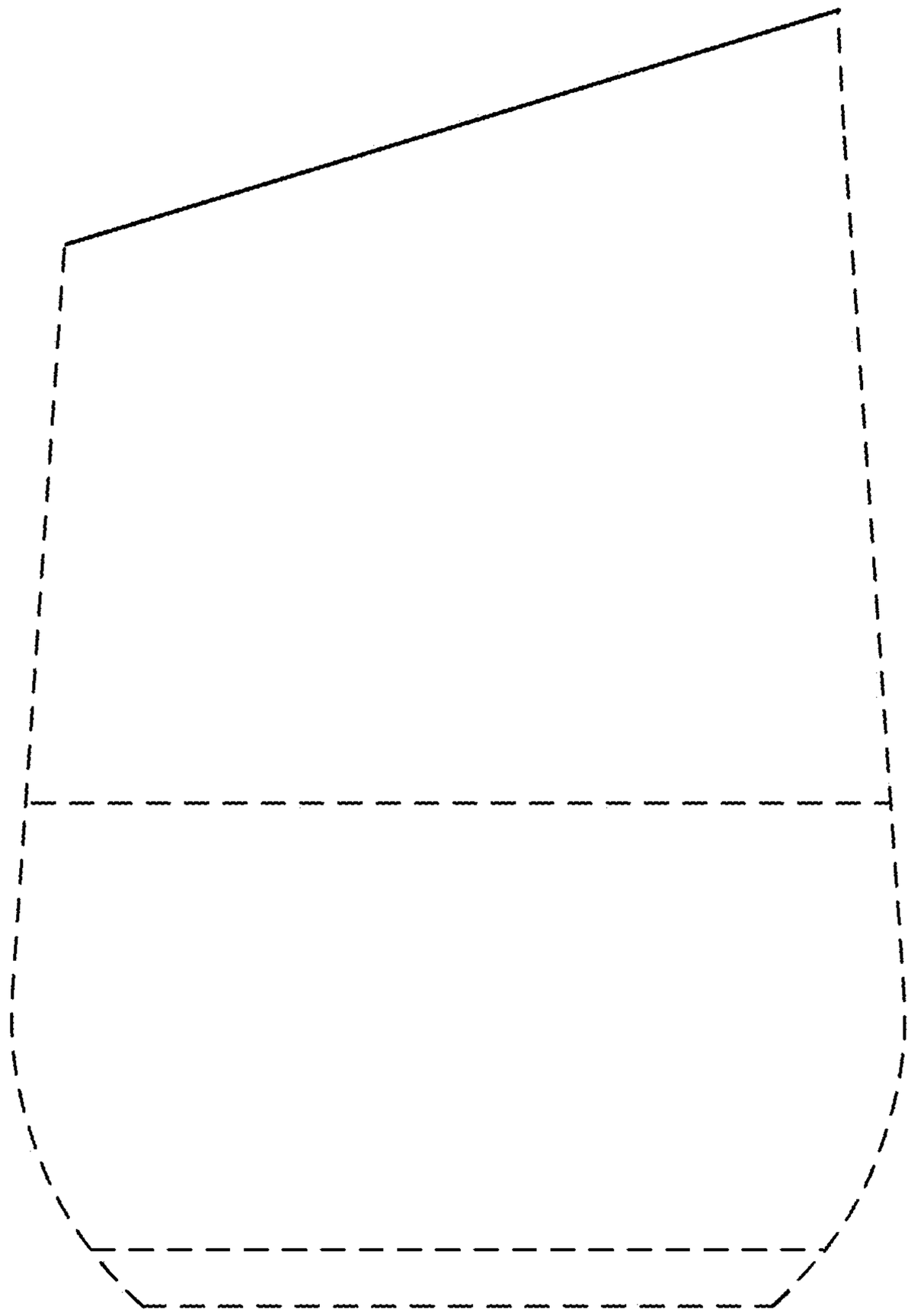


FIG. 4

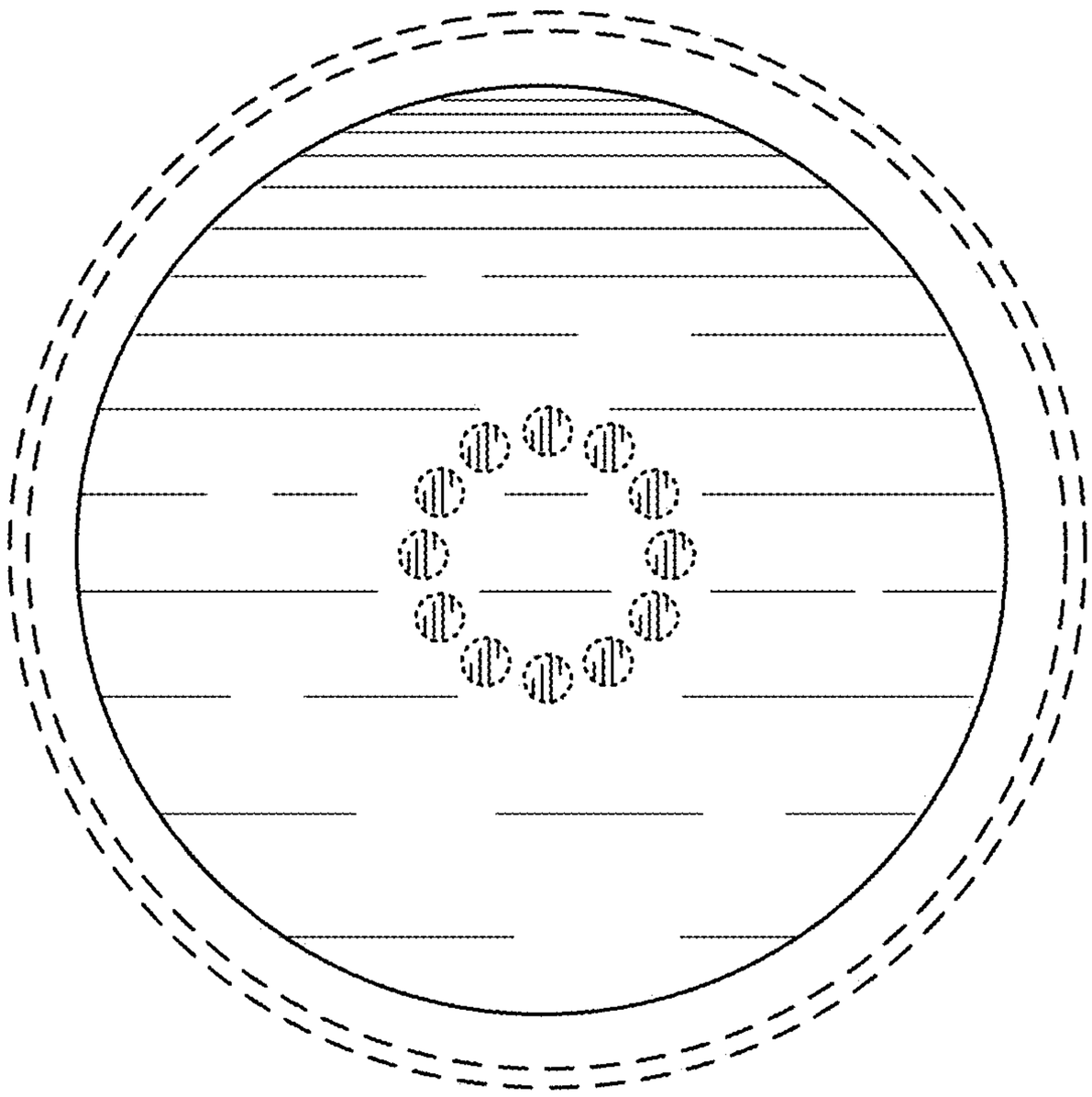


FIG. 5

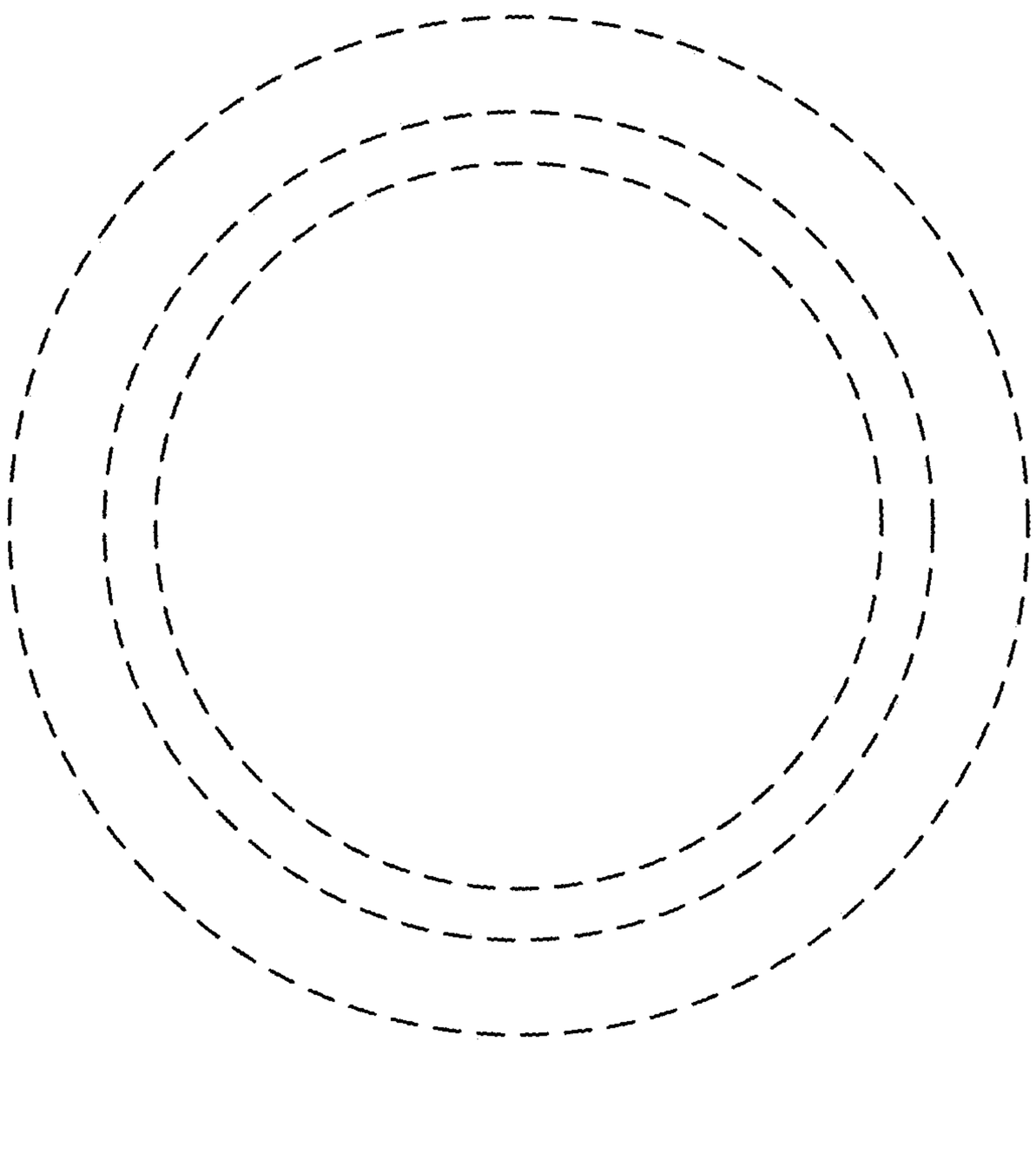


FIG. 6