



(12) **United States Design Patent**
Dyson et al.

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(54) **HUMIDIFIER**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

284,962 A 9/1883 Huston
1,357,261 A 11/1920 Svoboda
1,767,060 A 6/1930 Ferguson
1,896,869 A 2/1933 Larsh

(Continued)

FOREIGN PATENT DOCUMENTS

BE 560119 8/1957
CA 1055344 5/1979

(Continued)

OTHER PUBLICATIONS

Fitton et al., U.S. Office Action mailed Dec. 31, 2013, directed to U.S. Appl. No. 13/718,693; 8 pages.

(Continued)

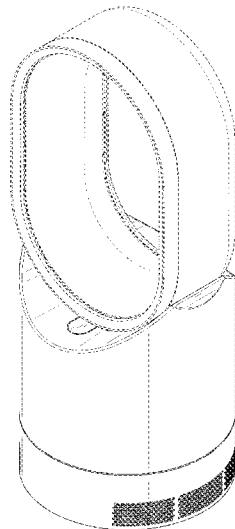
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(57) **CLAIM**
We claim the ornamental design for a humidifier, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a humidifier showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a side view thereof;
FIG. 5 is a side view of the opposite side of FIG. 4;
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.
The broken lines depict portions of the humidifier and form no part of the claimed design. The dash-dot line depicts the bounds of the claim.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2,014,185 A	9/1935	Martin	5,168,722 A	12/1992	Brock
2,035,733 A	3/1936	Wall	5,176,856 A	1/1993	Takahashi et al.
2,071,266 A	2/1937	Schmidt	5,188,508 A	2/1993	Scott et al.
D103,476 S	3/1937	Weber	D343,231 S	1/1994	Lim
2,115,883 A	5/1938	Sher	5,296,769 A	3/1994	Havens et al.
D115,344 S	6/1939	Chapman	D346,017 S	4/1994	Lim
2,210,458 A	8/1940	Keilholtz	5,310,313 A	5/1994	Chen
2,258,961 A	10/1941	Saathoff	5,317,815 A	6/1994	Hwang
2,295,502 A	9/1942	Lamb	5,338,495 A	8/1994	Steiner et al.
2,336,295 A	12/1943	Reimuller	5,402,938 A	4/1995	Sweeney
2,363,839 A	11/1944	Demuth	5,407,324 A	4/1995	Starnes, Jr. et al.
2,433,795 A	12/1947	Stokes	5,425,902 A	6/1995	Miller et al.
2,473,325 A	6/1949	Aufiero	5,435,489 A	7/1995	Jenkins et al.
2,476,002 A	7/1949	Stalker	5,483,616 A	1/1996	Chiu et al.
2,488,467 A	11/1949	De Lisio	5,518,370 A	5/1996	Wang et al.
2,510,132 A	6/1950	Morrison	D374,712 S	10/1996	Jane et al.
2,544,379 A	3/1951	Davenport	5,609,473 A	3/1997	Litvin
2,547,448 A	4/1951	Demuth	5,645,769 A	7/1997	Tamaru et al.
2,583,374 A	1/1952	Hoffman	5,649,370 A	7/1997	Russo
2,620,127 A	12/1952	Radcliffe	D382,951 S	8/1997	Deines et al.
2,711,682 A	6/1955	Drechsel	5,671,321 A	9/1997	Bagnuolo
2,765,977 A	10/1956	Morrison	5,677,982 A	10/1997	Levine et al.
2,808,198 A	10/1957	Morrison	5,706,985 A	1/1998	Feer
2,813,673 A	11/1957	Smith	5,735,683 A	4/1998	Muschelknautz
2,830,779 A	4/1958	Wentling	5,762,034 A	6/1998	Foss
2,838,229 A	6/1958	Belanger	5,762,661 A	6/1998	Kleinberger et al.
2,922,277 A	1/1960	Bertin	5,783,117 A	7/1998	Byassee et al.
2,922,570 A	1/1960	Allen	5,794,306 A	8/1998	Firdaus
3,004,403 A	10/1961	Laporte	D398,983 S	9/1998	Keller et al.
3,047,208 A	7/1962	Coanda	5,841,080 A	11/1998	Iida et al.
3,270,655 A	9/1966	Guirl et al.	5,843,344 A	12/1998	Junket et al.
D206,973 S	2/1967	De Lisio	5,859,952 A	1/1999	Levine et al.
3,503,138 A	3/1970	Fuchs et al.	5,862,037 A	1/1999	Behl
3,518,776 A	7/1970	Wolff et al.	5,868,197 A	2/1999	Potier
3,724,092 A	4/1973	McCleerey	5,881,685 A	3/1999	Foss et al.
3,729,934 A	5/1973	Denning et al.	D415,271 S	10/1999	Feer
3,743,186 A	7/1973	Mocarski	6,015,274 A	1/2000	Bias et al.
3,795,367 A	3/1974	Mocarski	D423,663 S	4/2000	Rossmann et al.
3,872,916 A	3/1975	Beck	6,073,881 A	6/2000	Chen
3,875,745 A	4/1975	Franklin	D429,808 S	8/2000	Krauss et al.
3,885,891 A	5/1975	Thronson	6,123,618 A	9/2000	Day
3,943,329 A	3/1976	Hlavac	6,155,782 A	12/2000	Hsu
4,037,991 A	7/1977	Taylor	D435,899 S	1/2001	Melwani
4,046,492 A	9/1977	Inglis	6,200,155 B1	3/2001	Chudkosky et al.
4,061,188 A	12/1977	Beck	6,254,337 B1	7/2001	Arnold
4,073,613 A	2/1978	Desty	6,269,549 B1	8/2001	Carlucci et al.
4,090,814 A	5/1978	Teodorescu et al.	6,278,248 B1	8/2001	Hong et al.
4,113,416 A	9/1978	Kataoka et al.	6,282,746 B1	9/2001	Schleeter
4,136,735 A	1/1979	Beck et al.	6,293,121 B1	9/2001	Labrador
4,173,995 A	11/1979	Beck	6,321,034 B2	11/2001	Jones-Lawlor et al.
4,180,130 A	12/1979	Beck et al.	6,386,845 B1	5/2002	Bedard
4,184,417 A	1/1980	Chancellor	6,480,672 B1	11/2002	Rosenzweig et al.
4,184,541 A	1/1980	Beck et al.	6,599,088 B2	7/2003	Stagg
4,192,461 A	3/1980	Arborg	6,604,694 B1	8/2003	Kordas et al.
4,264,837 A	4/1981	Gaboriaud	D483,851 S	12/2003	Fok
4,332,529 A	6/1982	Alperin	D485,895 S	1/2004	Melwani
4,336,017 A	6/1982	Desty	D486,903 S	2/2004	Chiang
4,342,204 A	8/1982	Melikian et al.	6,715,739 B2	4/2004	Mulvaney et al.
4,448,354 A	5/1984	Reznick et al.	6,789,787 B2	9/2004	Stutts
4,568,243 A	2/1986	Schubert et al.	6,791,056 B2	9/2004	VanOtteren et al.
4,630,475 A	12/1986	Mizoguchi	6,830,433 B2	12/2004	Birdsell et al.
4,643,351 A	2/1987	Fukamachi et al.	6,845,971 B2	1/2005	Bachert
4,703,152 A	10/1987	Shih-Chin	D512,772 S	12/2005	Lee
4,716,946 A	1/1988	Grigoletto	D513,067 S	12/2005	Blateri
4,718,870 A	1/1988	Watts	7,059,826 B2	6/2006	Lasko
4,732,539 A	3/1988	Shin-Chin	7,088,913 B1	8/2006	Verhoorn et al.
4,734,017 A	3/1988	Levin	7,147,336 B1	12/2006	Chou
4,790,133 A	12/1988	Stuart	D539,414 S	3/2007	Russak et al.
4,850,804 A	7/1989	Huang	7,192,258 B2	3/2007	Kuo et al.
4,878,620 A	11/1989	Tarleton	7,198,473 B2	4/2007	Stickland et al.
4,893,990 A	1/1990	Tomohiro et al.	D544,078 S *	6/2007	Geringer D23/328
4,978,281 A	12/1990	Conger	7,412,781 B2	8/2008	Mattinger et al.
5,061,405 A	10/1991	Stanek et al.	7,478,993 B2	1/2009	Hong et al.
D325,435 S	4/1992	Coup et al.	7,540,474 B1	6/2009	Huang et al.
5,110,266 A	5/1992	Toyoshima et al.	D595,835 S	7/2009	Fu
			D598,532 S	8/2009	Dyson et al.
			D602,143 S	10/2009	Gammack et al.
			D602,144 S	10/2009	Dyson et al.
			D605,748 S	12/2009	Gammack et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

7,660,110	B2	2/2010	Vinson et al.	2008/0152482	A1	6/2008	Patel
7,664,377	B2	2/2010	Liao	2008/0166224	A1	7/2008	Giffin
D614,280	S	4/2010	Dyson et al.	2008/0286130	A1	11/2008	Purvines
7,731,050	B2	6/2010	Parks et al.	2008/0314250	A1	12/2008	Cowie et al.
7,775,848	B1	8/2010	Auerbach	2009/0026850	A1	1/2009	Fu
7,806,388	B2	10/2010	Junkel et al.	2009/0032130	A1	2/2009	Dumas et al.
7,841,045	B2	11/2010	Shaanan et al.	2009/0039805	A1	2/2009	Tang
D633,997	S	3/2011	Hideharu et al.	2009/0060710	A1	3/2009	Gammack et al.
D633,999	S	3/2011	Hideharu et al.	2009/0060711	A1	3/2009	Gammack et al.
7,931,449	B2	4/2011	Fitton et al.	2009/0078120	A1	3/2009	Kummer et al.
D638,114	S	5/2011	Li et al.	2009/0120925	A1	5/2009	Lasko
D643,098	S	8/2011	Wallace et al.	2009/0191054	A1	7/2009	Winkler
8,002,520	B2	8/2011	Dawson et al.	2009/0214341	A1	8/2009	Craig
D644,726	S *	9/2011	Hideharu et al. D23/370	2010/0133707	A1	6/2010	Huang
D645,133	S *	9/2011	Hideharu D23/370	2010/0150699	A1	6/2010	Nicolas et al.
D646,373	S	10/2011	Liebson et al.	2010/0162011	A1	6/2010	Min
8,092,166	B2	1/2012	Nicolas et al.	2010/0171465	A1	7/2010	Seal et al.
8,113,490	B2	2/2012	Chen	2010/0225012	A1	9/2010	Fitton et al.
8,152,495	B2	4/2012	Bogges, Jr. et al.	2010/0226749	A1	9/2010	Gammack et al.
8,246,317	B2	8/2012	Gammack	2010/0226750	A1	9/2010	Gammack
D669,164	S	10/2012	Hsu	2010/0226751	A1	9/2010	Gammack et al.
8,308,445	B2	11/2012	Gammack et al.	2010/0226752	A1	9/2010	Gammack et al.
D672,023	S	12/2012	Wallace et al.	2010/0226753	A1	9/2010	Dyson et al.
D672,024	S	12/2012	Fitton et al.	2010/0226754	A1	9/2010	Hutton et al.
8,348,629	B2	1/2013	Fitton et al.	2010/0226758	A1	9/2010	Cookson et al.
8,356,804	B2	1/2013	Fitton et al.	2010/0226763	A1	9/2010	Gammack et al.
D676,536	S *	2/2013	Roach et al. D23/328	2010/0226764	A1	9/2010	Gammack et al.
D678,993	S	3/2013	Kung-Hua	2010/0226769	A1	9/2010	Helps
8,403,640	B2	3/2013	Gammack et al.	2010/0226771	A1	9/2010	Crawford et al.
8,408,869	B2	4/2013	Hutton et al.	2010/0226787	A1	9/2010	Gammack et al.
D681,793	S	5/2013	Li	2010/0226797	A1	9/2010	Fitton et al.
D684,249	S	6/2013	Herbst	2010/0226801	A1	9/2010	Gammack
8,454,322	B2	6/2013	Gammack et al.	2010/0254800	A1	10/2010	Fitton et al.
8,469,660	B2	6/2013	Dyson et al.	2011/0058935	A1	3/2011	Gammack et al.
8,529,226	B2	9/2013	Li	2011/0110805	A1	5/2011	Gammack et al.
8,544,826	B2	10/2013	Ediger et al.	2011/0164959	A1	7/2011	Fitton et al.
D698,018	S *	1/2014	Choi D23/366	2011/0223014	A1	9/2011	Crawford et al.
D700,959	S	3/2014	Sickinger et al.	2011/0223015	A1	9/2011	Gammack et al.
8,684,687	B2	4/2014	Dyson et al.	2011/0236228	A1	9/2011	Fitton et al.
D705,415	S	5/2014	Lo	2012/0031509	A1	2/2012	Wallace et al.
8,721,286	B2	5/2014	Gammack et al.	2012/0033952	A1	2/2012	Wallace et al.
8,721,307	B2	5/2014	Li	2012/0034108	A1	2/2012	Wallace et al.
8,764,412	B2	7/2014	Gammack et al.	2012/0039705	A1	2/2012	Gammack
8,783,663	B2	7/2014	Fitton et al.	2012/0045315	A1	2/2012	Gammack
8,784,071	B2	7/2014	Gammack	2012/0045316	A1	2/2012	Gammack
2001/0017212	A1	8/2001	Hirano	2012/0051884	A1	3/2012	Junkel et al.
2002/0104972	A1	8/2002	Guzorek	2012/0057959	A1	3/2012	Hodgson et al.
2002/0106547	A1	8/2002	Sugawara et al.	2012/0082561	A1	4/2012	Gammack et al.
2003/0059307	A1	3/2003	Moreno et al.	2012/0093629	A1	4/2012	Fitton et al.
2003/0171093	A1	9/2003	Gumucio Del Pozo	2012/0093630	A1	4/2012	Fitton et al.
2003/0190183	A1	10/2003	Hsing	2012/0114513	A1	5/2012	Simmonds et al.
2004/0022631	A1	2/2004	Birdsell et al.	2012/0230658	A1	9/2012	Fitton et al.
2004/0049842	A1	3/2004	Prehodka	2012/0308375	A1	12/2012	Gammack
2004/0149881	A1	8/2004	Allen	2012/0318393	A1 *	12/2012	Tsen 137/803
2005/0031448	A1	2/2005	Lasko et al.	2013/0011252	A1	1/2013	Crawford et al.
2005/0053465	A1	3/2005	Roach et al.	2013/0026664	A1	1/2013	Staniforth et al.
2005/0069407	A1	3/2005	Winkler et al.	2013/0028763	A1	1/2013	Staniforth et al.
2005/0128698	A1	6/2005	Huang	2013/0028766	A1	1/2013	Staniforth et al.
2005/0163670	A1	7/2005	Alleyne et al.	2013/0077292	A1 *	3/2013	Zimmerman 362/142
2005/0173997	A1	8/2005	Schmid et al.	2013/0129490	A1	5/2013	Dos Reis et al.
2005/0258554	A1	11/2005	Bachert	2013/0142676	A1	6/2013	Zou
2005/0281672	A1	12/2005	Parker et al.	2013/0161842	A1	6/2013	Fitton et al.
2006/0172682	A1	8/2006	Orr et al.	2013/0175711	A1	7/2013	Nutter et al.
2006/0199515	A1	9/2006	Lasko et al.	2013/0199372	A1	8/2013	Nock et al.
2006/0279927	A1	12/2006	Strohm	2013/0309065	A1	11/2013	Johnson et al.
2007/0035189	A1	2/2007	Matsumoto	2013/0309080	A1	11/2013	Johnson et al.
2007/0041857	A1	2/2007	Fleig	2013/0323100	A1	12/2013	Poulton et al.
2007/0065280	A1	3/2007	Fok	2013/0336771	A1	12/2013	Dyson et al.
2007/0166160	A1	7/2007	Russak et al.	2014/0017069	A1	1/2014	Peters
2007/0176502	A1	8/2007	Kasai et al.	2014/0077398	A1	3/2014	Staniforth et al.
2007/0224044	A1	9/2007	Hong et al.	2014/0079566	A1	3/2014	Gammack et al.
2007/0237500	A1	10/2007	Wang	2014/0084492	A1	3/2014	Staniforth et al.
2007/0269323	A1	11/2007	Zhou et al.	2014/0210114	A1	7/2014	Staniforth et al.
2008/0020698	A1	1/2008	Spaggiari	2014/0210115	A1	7/2014	Staniforth et al.
2008/0124060	A1	5/2008	Gao	2014/0255173	A1	9/2014	Poulton et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0255217 A1 9/2014 Li
 2015/0084214 A1 3/2015 Wilson et al.

FOREIGN PATENT DOCUMENTS

CA	2155482	9/1996	DE	10041805	6/2002
CH	346643	5/1960	DE	10 2009 007	8/2010
CN	2085866	10/1991	EP	0 044 494	1/1982
CN	2111392	7/1992	EP	0186581	7/1986
CN	2549372	5/2003	EP	0 459 812	12/1991
CN	1437300	8/2003	EP	0 784 947	7/1997
CN	2650005	10/2004	EP	1 094 224	4/2001
CN	2713643	7/2005	EP	1 138 954	10/2001
CN	1680727	10/2005	EP	1357296	10/2003
CN	1724950	1/2006	EP	1 779 745	5/2007
CN	2833197	11/2006	EP	1 939 456	7/2008
CN	201011346	1/2008	EP	1 980 432	10/2008
CN	201147215	11/2008	EP	2 000 675	12/2008
CN	201180678	1/2009	EP	2191142	6/2010
CN	201221477	4/2009	EP	2 230 467	9/2010
CN	101424279	5/2009	EP	2 414 738	2/2012
CN	101451754	6/2009	EP	2 578 889	4/2013
CN	201281416	7/2009	FR	1033034	7/1953
CN	201349269	11/2009	FR	1119439	6/1956
CN	101684828	3/2010	FR	1387334	1/1965
CN	201486901	5/2010	FR	2 375 471	7/1978
CN	101726100	6/2010	FR	2 534 983	4/1984
CN	101749288	6/2010	FR	2 640 857	6/1990
CN	201502549	6/2010	FR	2 658 593	8/1991
CN	201507461	6/2010	FR	2794195	12/2000
CN	201518985	7/2010	FR	2 874 409	2/2006
CN	101825096	9/2010	FR	2 906 980	4/2008
CN	101825101	9/2010	FR	2928706	9/2009
CN	101825102	9/2010	GB	22235	6/1914
CN	101825103	9/2010	GB	383498	11/1932
CN	101825104	9/2010	GB	593828	10/1947
CN	101825324	9/2010	GB	601222	4/1948
CN	201568337	9/2010	GB	633273	12/1949
CN	101858355	10/2010	GB	641622	8/1950
CN	101936310	1/2011	GB	661747	11/1951
CN	201696365 U	1/2011	GB	861749	2/1961
CN	201696366	1/2011	GB	863 124	3/1961
CN	201739199	2/2011	GB	1067956	5/1967
CN	101984299	3/2011	GB	1 262 131	2/1972
CN	101985948	3/2011	GB	1 265 341	3/1972
CN	201763705	3/2011	GB	1 278 606	6/1972
CN	201763706	3/2011	GB	1 304 560	1/1973
CN	201770513	3/2011	GB	1 403 188	8/1975
CN	201771875	3/2011	GB	1 434 226	5/1976
CN	201779080	3/2011	GB	1 501 473	2/1978
CN	201786777	4/2011	GB	2 094 400	9/1982
CN	201786778	4/2011	GB	2 107 787	5/1983
CN	201802648	4/2011	GB	2 111 125	6/1983
CN	301539668	5/2011	GB	2 178 256	2/1987
CN	102095236	6/2011	GB	2 185 531	7/1987
CN	201858204	6/2011	GB	2 185 533	7/1987
CN	201874898	6/2011	GB	2 218 196	11/1989
CN	201874901	6/2011	GB	2 236 804	4/1991
CN	102251973	11/2011	GB	2 240 268	7/1991
CN	102287357	12/2011	GB	2 242 935	10/1991
CN	202101355	1/2012	GB	2 285 504	7/1995
CN	102367813	3/2012	GB	2 289 087	11/1995
CN	202267207	6/2012	GB	2383277	6/2003
CN	301949285	6/2012	GB	2 428 569	2/2007
CN	202431623	9/2012	GB	2 452 593	3/2009
CN	102900654	1/2013	GB	2452490	3/2009
CN	103697556	4/2014	GB	2463698	3/2010
DE	1 291 090	3/1969	GB	2464736	4/2010
DE	24 51 557	5/1976	GB	2466058	6/2010
DE	27 48 724	5/1978	GB	2468312	9/2010
DE	3644567	7/1988	GB	2468313	9/2010
DE	195 10 397	9/1996	GB	2468315	9/2010
DE	197 12 228	10/1998	GB	2468317	9/2010
DE	100 00 400	3/2001	GB	2468319	9/2010
			GB	2468320	9/2010
			GB	2468323	9/2010
			GB	2468328	9/2010
			GB	2468329	9/2010
			GB	2468331	9/2010
			GB	2468369	9/2010
			GB	2468498	9/2010
			GB	2473037	3/2011
			GB	2479760	10/2011
			GB	2482547	2/2012

(56)

References Cited

OTHER PUBLICATIONS

- Gammack, P. et al., U.S. Office Action mailed Dec. 10, 2010, directed to U.S. Appl. No. 12/230,613; 12 pages.
- Gammack, P. et al., U.S. Office Action mailed May 13, 2011, directed to U.S. Appl. No. 12/230,613; 13 pages.
- Gammack, P. et al., U.S. Office Action mailed Sep. 7, 2011, directed to U.S. Appl. No. 12/230,613; 15 pages.
- Gammack, P. et al., U.S. Office Action mailed Jun. 8, 2012, directed to U.S. Appl. No. 12/230,613; 15 pages.
- Gammack et al., U.S. Office Action mailed Aug. 20, 2012, directed to U.S. Appl. No. 12/945,558; 15 pages.
- Gammack et al., U.S. Office Action mailed Feb. 28, 2013, directed to U.S. Appl. No. 12/945,558; 16 pages.
- Gammack et al., Office Action mailed Jun. 12, 2013, directed towards U.S. Appl. No. 12/945,558; 20 pages.
- Fitton et al., U.S. Office Action mailed Nov. 30, 2010 directed to U.S. Appl. No. 12/560,232; 9 pages.
- Nicolas, F. et al., U.S. Office Action mailed Mar. 7, 2011, directed to U.S. Appl. No. 12/622,844; 10 pages.
- Nicolas, F. et al., U.S. Office Action mailed Sep. 8, 2011, directed to U.S. Appl. No. 12/622,844; 11 pages.
- Helps, D. F. et al., U.S. Office Action mailed Feb. 15, 2013, directed to U.S. Appl. No. 12/716,694; 12 pages.
- Fitton et al., U.S. Office Action mailed Mar. 8, 2011, directed to U.S. Appl. No. 12/716,780; 12 pages.
- Fitton, et al., U.S. Office Action mailed Sep. 6, 2011, directed to U.S. Appl. No. 12/716,780; 16 pages.
- Gammack, P. et al., U.S. Office Action mailed Feb. 14, 2013, directed to U.S. Appl. No. 12/716,515; 21 pages.
- Gammack, P. et al., U.S. Office Action mailed Aug. 19, 2013, directed to U.S. Appl. No. 12/716,515; 20 pages.
- Gammack, P. et al., U.S. Office Action mailed Dec. 9, 2010, directed to U.S. Appl. No. 12/716,781; 17 pages.
- Gammack, P. et al., U.S. Final Office Action mailed Jun. 24, 2011, directed to U.S. Appl. No. 12/716,781; 19 pages.
- Gammack et al. Office Action mailed May 29, 2013, directed towards U.S. Appl. No. 13/588,666; 11 pages.
- Gammack, P. et al., U.S. Office Action mailed Apr. 12, 2011, directed to U.S. Appl. No. 12/716,749; 8 pages.
- Gammack, P. et al., U.S. Office Action mailed Sep. 1, 2011, directed to U.S. Appl. No. 12/716,749; 9 pages.
- Gammack, P. et al., U.S. Office Action mailed Jun. 25, 2012, directed to U.S. Appl. No. 12/716,749; 11 pages.
- Fitton et al., U.S. Office Action mailed Mar. 30, 2012, directed to U.S. Appl. No. 12/716,707; 7 pages.
- Gammack et al., U.S. Office Action mailed Mar. 14, 2013, directed to U.S. Appl. No. 12/716,740; 15 pages.
- Gammack, P. et al., U.S. Office Action mailed May 24, 2011, directed to U.S. Appl. No. 12/716,613; 9 pages.
- Gammack, P. et al. U.S. Office Action mailed Oct. 18, 2012, directed to U.S. Appl. No. 12/917,247; 11 pages.
- Wallace et al., Office Action mailed Jun. 7, 2013, directed towards U.S. Appl. No. 13/192,223; 30 pages.
- Reba, I. (1966). "Applications of the Coanda Effect," *Scientific American* 214:84-92.
- Third Party Submission Under 37 CFR 1.99 filed Jun. 2, 2011, directed towards U.S. Appl. No. 12/203,698; 3 pages.
- Staniforth et al., U.S. Office Action mailed Sep. 18, 2014, directed to U.S. Appl. No. 13/559,142; 18 pages.
- Gammack et al., U.S. Office Action mailed Sep. 6, 2013, directed to U.S. Appl. No. 12/716,740; 15 pages.
- Dos Reis et al., U.S. Office Action mailed Sep. 23, 2014, directed to U.S. Appl. No. 29/466,240; 9 pages.
- Dos Reis et al., U.S. Office Action mailed Sep. 24, 2014, directed to U.S. Appl. No. 29/466,229; 9 pages.
- Dos Reis et al., U.S. Office Action mailed Sep. 19, 2014, directed to U.S. Appl. No. 29/466,190; 9 pages.
- Mcperson et al., U.S. Office Action mailed Sep. 19, 2014, directed to U.S. Appl. No. 29/466,094; 8 pages.
- Mcperson et al., U.S. Office Action mailed Sep. 19, 2014, directed to U.S. Appl. No. 29/466,241; 8 pages.
- Mcperson et al., U.S. Office Action mailed Sep. 19, 2014, directed to U.S. Appl. No. 29/466,253; 7 pages.
- Dyson et al., U.S. Office Action mailed Sep. 12, 2014, directed to U.S. Appl. No. 29/480,896; 10 pages.
- Dyson et al., U.S. Office Action mailed Sep. 12, 2014, directed to U.S. Appl. No. 29/480,915; 9 pages.
- Poulton et al., U.S. Office Action mailed Sep. 12, 2014, directed to U.S. Appl. No. 29/480,919; 10 pages.
- Deniss. (Sep. 9, 2010) "iFan, The Chinese Clone of the Dyson Air Multiplier," located at <<http://chinitech.com/en/chinese-clones/ifan-le-clone-chinois-du-dyson-air-multiplier>> visited on Aug. 29, 2014. (6 pages).
- Amee. (Mar. 29, 2012) "Breeze Right Bladeless Fan Up to 41% Off," located at <<http://madamedeals.com/breeze-right-bladeless-fan-up-to-41-off/>> visited on Sep. 3, 2014. (2 pages).
- Questel. (Jun. 11, 2014) "Designs-Questel" located at <<http://sobjprd.questel.fr/export/QPTUJ214/pdf/19f053ea-a60f-4c58-9232-c458147a9adf-224304.pdf>> visited on Sep. 4, 2014. (67 pages).
- Amazon. "Pisenic Bladeless Fan 16 Inches with Remote Control, Bladeless Fan Air Conditioner 110v, Air Multiplier Table Fans, Green," located at <http://www.amazon.com/Pisenic-Bladeless-Fan-16-Conditioner/dp/B007VCI78M%3FSubscriptionid%3DAKIAJYLII7AAJMX7ETAA%26tag%3Dtk78-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3DB007VCI78M#cm_cr_dpwidgt> visited on Sep. 2, 2014. (4 pages).
- Steiner, L., (May 14, 2013) "Dyson Fan Heater Review: Cozy Up To Dyson Fan Heater," located at <<http://www.vissbiz.com/dyson-fan-heater-review/cozy-up-to-dyson-fan-heater/>> visited on Sep. 3, 2014. (3 pages).
- Staniforth et al., U.S. Office Action mailed Mar. 17, 2015, directed to U.S. Appl. No. 13/785,787; 18 pages.
- Staniforth et al., U.S. Office Action mailed Feb. 27, 2015, directed to U.S. Appl. No. 13/786,014; 7 pages.
- Dyson et al., U.S. Office Action mailed Apr. 27, 2015, directed to U.S. Appl. No. 29/460,994; 6 pages.
- Dyson et al., U.S. Office Action mailed Apr. 24, 2015, directed to U.S. Appl. No. 29/460,990; 6 pages.
- Staniforth et al., U.S. Office Action mailed Jun. 4, 2015, directed to U.S. Appl. No. 13/784,430; 17 pages.
- Dyson et al., U.S. Office Action mailed May 28, 2015, directed to U.S. Appl. No. 29/460,993; 9 pages.
- Fitton et al., U.S. Office Action mailed Jun. 13, 2014, directed to U.S. Appl. No. 13/274,998; 11 pages.
- Fitton et al., U.S. Office Action mailed Jun. 13, 2014, directed to U.S. Appl. No. 13/275,034; 10 pages.
- Gammack et al., U.S. Office Action mailed Sep. 3, 2014, directed to U.S. Appl. No. 13/861,891; 7 pages.

* cited by examiner

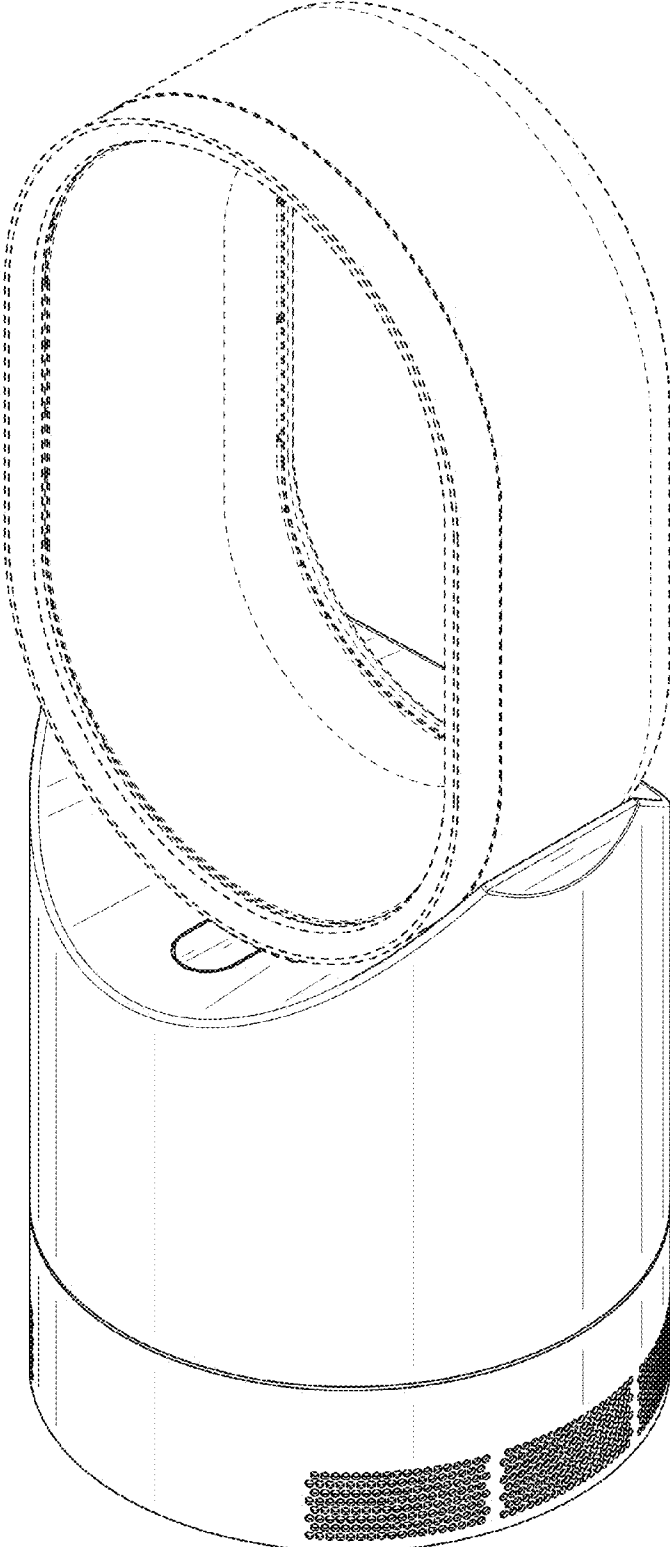


FIG. 1

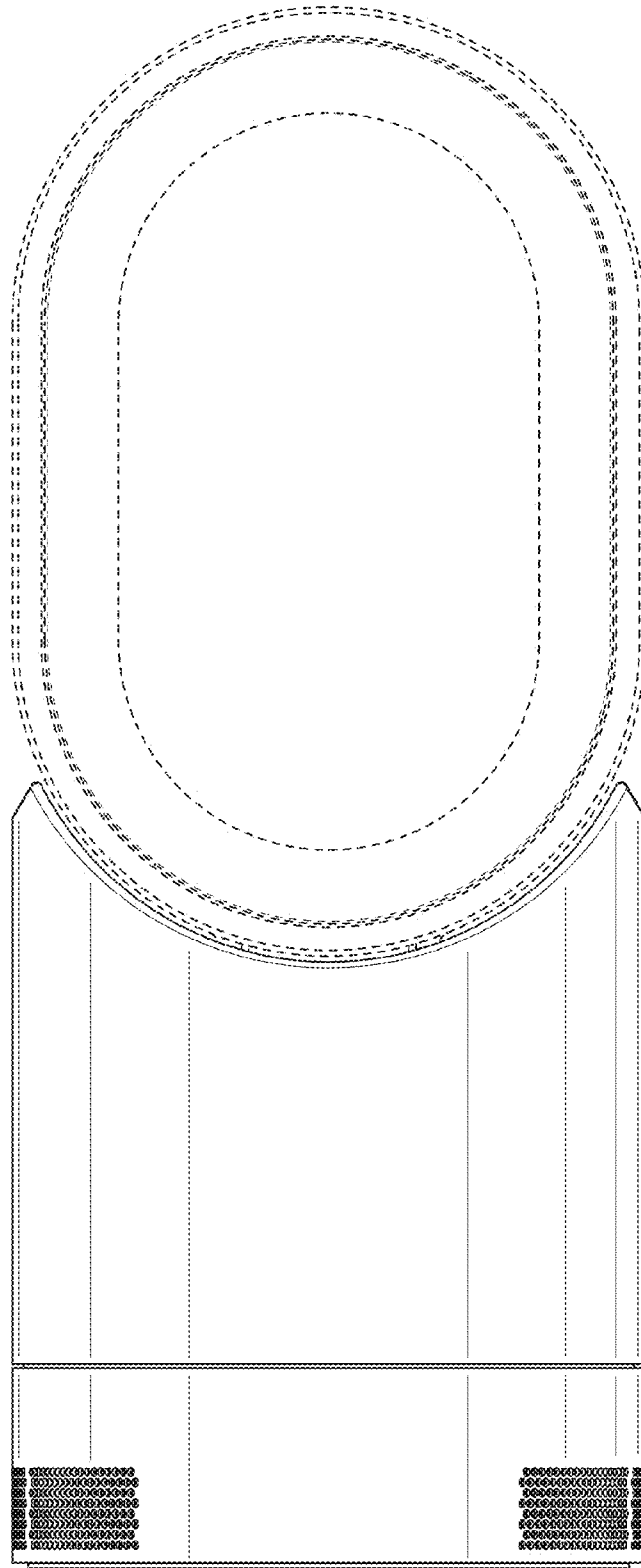


FIG. 2

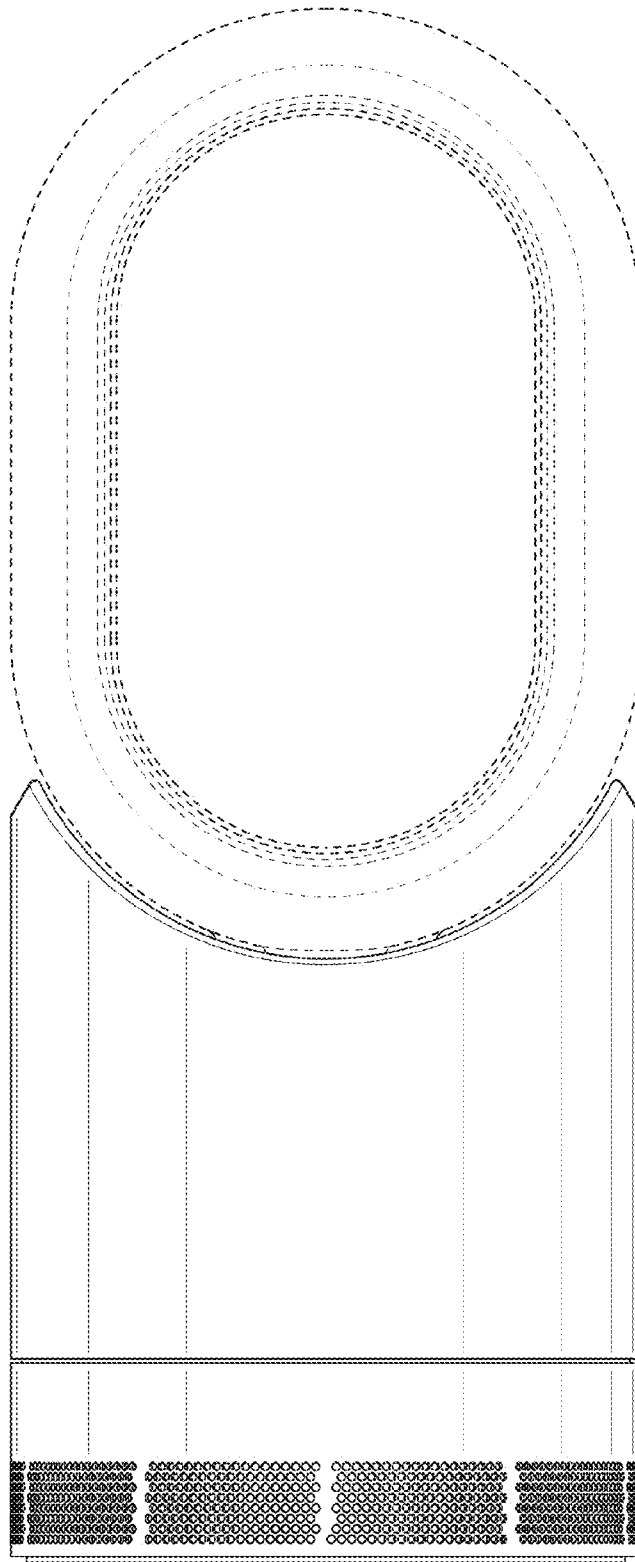


FIG. 3

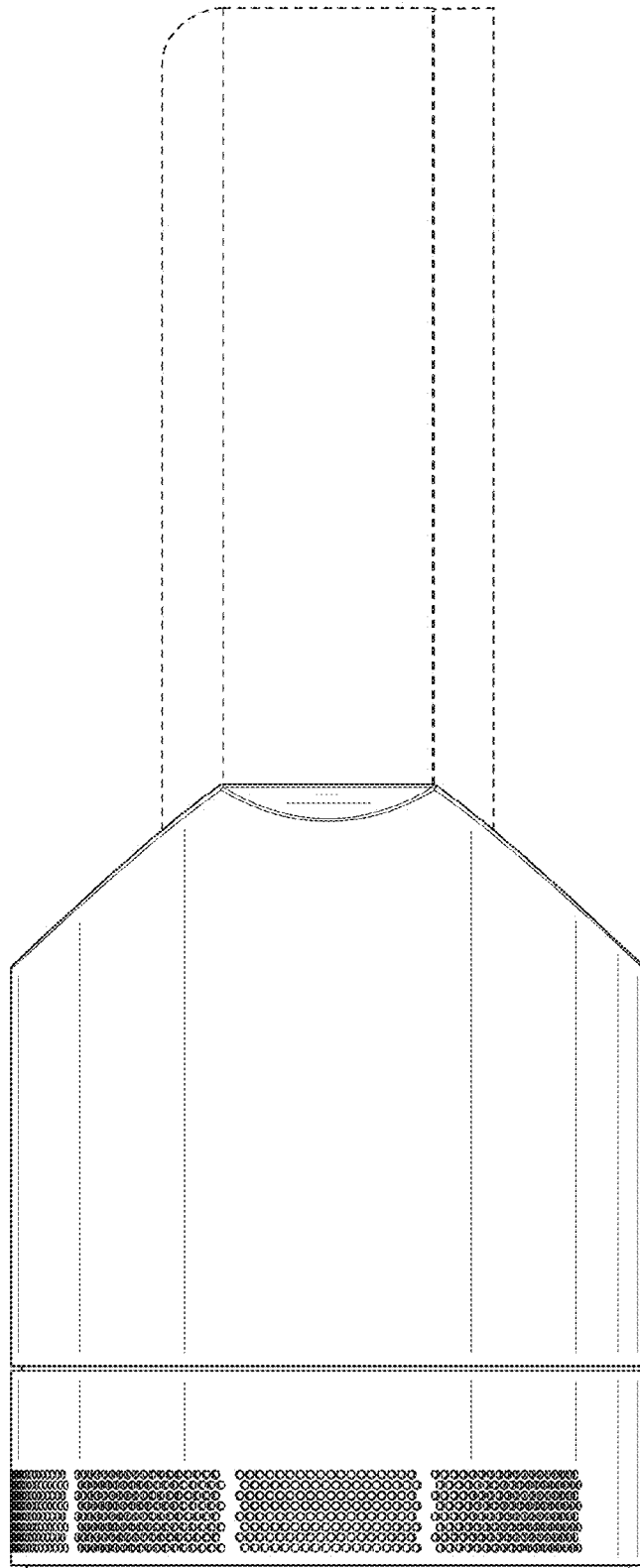


FIG. 4

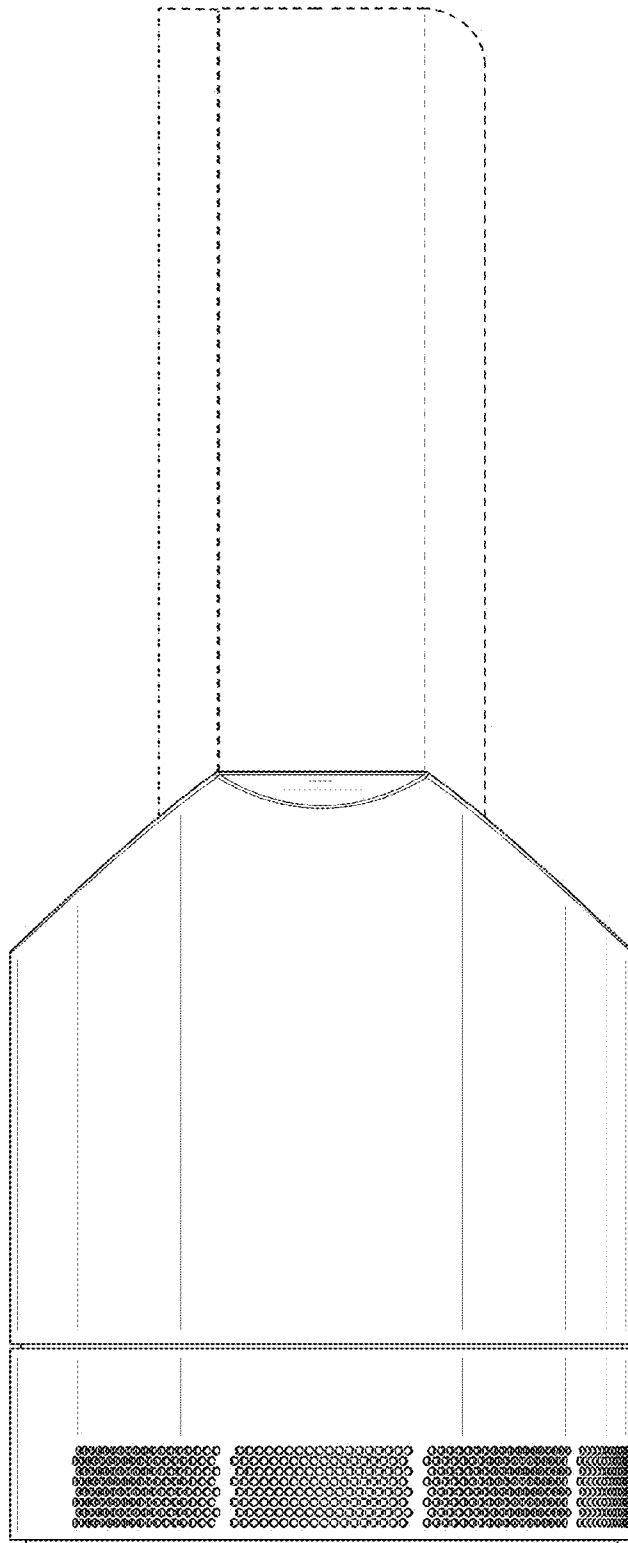


FIG. 5

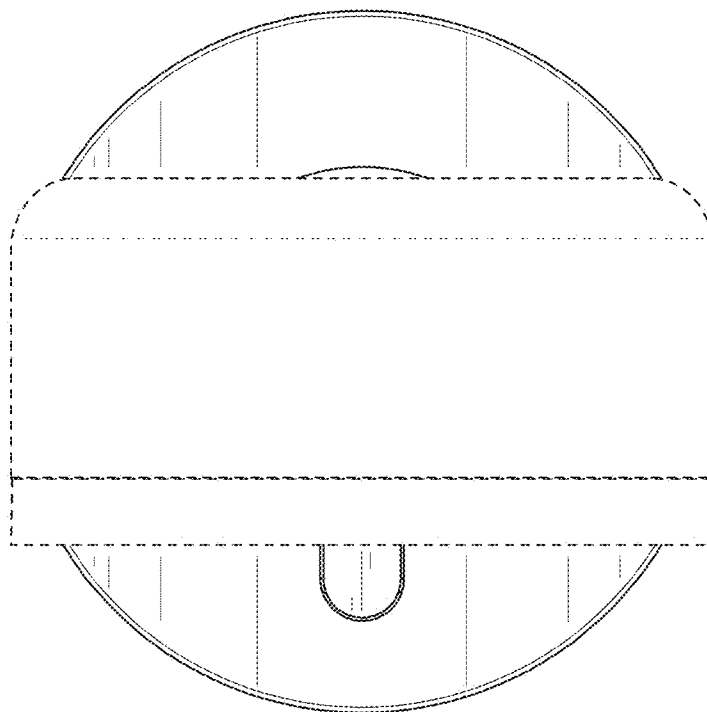


FIG. 6

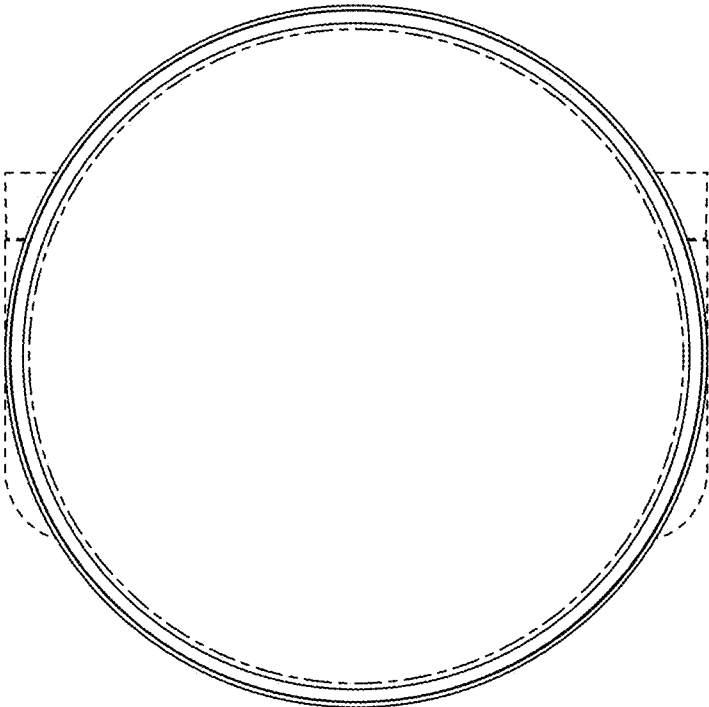


FIG. 7