



US00D917432S

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

(10) **Patent No.:** **US D917,432 S**
(45) **Date of Patent:** **** Apr. 27, 2021**

(54) **MICROPHONE**

(71) Applicant: **SHENZHEN XUNWEIJIA TECHNOLOGY DEVELOPMENT CO., LTD.**, Shenzhen (CN)

(72) Inventor: **Qibin Mai**, Shenzhen (CN)

(73) Assignee: **SHENZHEN XUNWEIJIA TECHNOLOGY DEVELOPMENT CO., LTD.**, Shenzhe (CN)

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

(21) Appl. No.: **29/741,109**

(22) Filed: **Jul. 9, 2020**

(51) **LOC (13) Cl.** **14-01**

(52) **U.S. Cl.**
USPC **D14/227; D14/229**

(58) **Field of Classification Search**
USPC D14/227, 229, 225, 228, 226, 497, 155, D14/240, 243, 256, 140, 452, 252, 251; D10/104.1; D13/108, 110; 181/158; 381/355, 361, 113, 191, 357, 174, 362; D21/483; 248/411, 278.1, 184.1, 558, 248/222.13, 917, 185.1, 206.5; D6/513, D6/716.8, 574; D8/355; D16/214, 131, D16/130, 135; 379/454; 224/553; 403/61, 55

CPC H04R 9/08; H04R 19/02; H04R 19/04; H04R 19/06; H04R 25/00; H04R 11/04; H04R 3/00; H04R 1/08; H04R 1/20; H04R 1/02; H04R 1/086; A47F 5/00; F16M 11/00; F16M 13/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,680,560 A * 8/1928 McDonald F21V 21/26 403/55
1,988,001 A * 1/1935 Flanders H04R 1/083 381/113

2,081,622 A * 5/1937 Foster H04R 1/08 381/361
2,123,103 A * 7/1938 Fischel H01R 39/00 439/23
2,156,367 A * 5/1939 Zadek F16M 11/10 403/93
2,459,040 A * 1/1949 Miller F16M 11/10 248/183.1
2,459,785 A * 1/1949 Allerton F16B 7/1427 248/412

(Continued)

FOREIGN PATENT DOCUMENTS

CN 305017573 * 1/2019
CN 306118289 * 10/2020
EM 005216140-0001 * 4/2018

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Law Offices of Steven W. Weinrieb

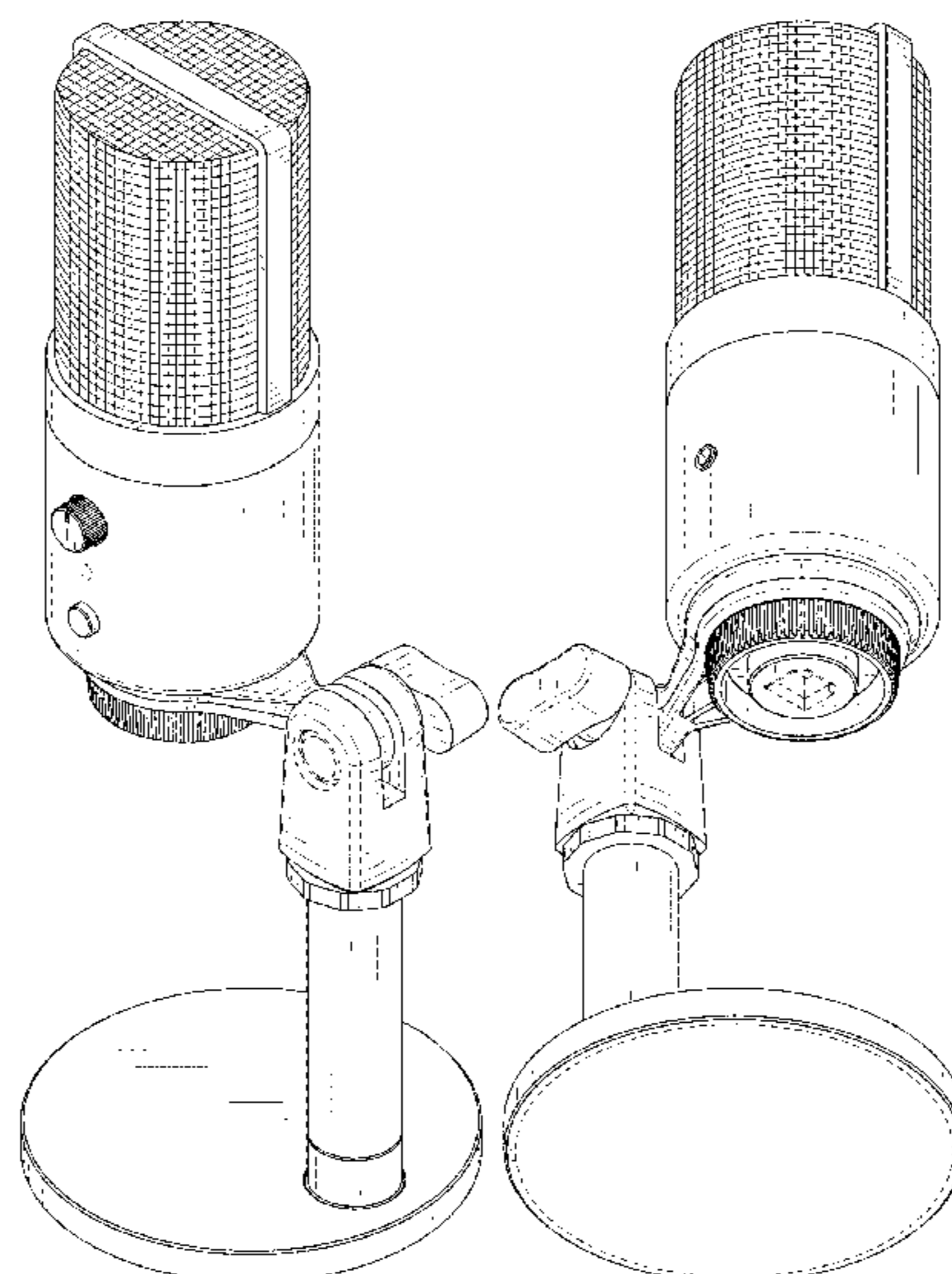
(57) **CLAIM**

The ornamental design for a microphone, as shown and described.

DESCRIPTION

FIG. 1 is a front, right side, top perspective view of a microphone showing my new design; FIG. 2 is a rear, left side, bottom perspective view thereof; FIG. 3 is a front elevational view thereof; FIG. 4 is a rear elevational view thereof; FIG. 5 is a left side elevational view thereof; FIG. 6 is a right side elevational view thereof; FIG. 7 is a top plan view thereof; and, FIG. 8 is a bottom plan view thereof. The broken lines depict portions of the microphone that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)	References Cited						
	U.S. PATENT DOCUMENTS						
2,567,875	A *	9/1951 Carrington	H04R 1/222	5,357,577	A *	10/1994 Waji	H01J 7/24
			381/360				361/704
2,650,788	A *	9/1953 Hulstein	F16M 11/2078	D353,684	S *	12/1994 Moussa	D26/113
			248/231.71	5,398,901	A *	3/1995 Brodmann	A47B 81/06
2,773,933	A *	12/1956 Hawley	H04R 1/406				248/181.1
			381/357	5,400,991	A *	3/1995 Werner	F16M 11/08
D179,540	S *	1/1957 Knechtsberger	D14/227				248/230.4
2,905,421	A *	9/1959 O'Connor	F16M 11/2014	D357,481	S *	4/1995 Giuntoli	D14/227
			248/636	D366,887	S *	2/1996 Wood	D16/242
2,920,140	A *	1/1960 Morgan	H04R 19/04	5,553,820	A *	9/1996 Karten	A47B 21/0314
			381/113				248/181.2
3,007,012	A *	10/1961 Olson	H04R 19/04	5,588,630	A *	12/1996 Chen-Chao	F16C 11/10
			381/357				248/514
3,153,123	A *	10/1964 Harman	H04R 1/08	D379,185	S *	5/1997 Luther	D14/227
			381/363	5,799,096	A *	8/1998 Liao	H04R 1/083
3,505,761	A *	4/1970 Prieur	A01G 17/12				381/355
			47/43	5,805,709	A *	9/1998 Liou	H04R 1/08
3,545,710	A *	12/1970 Mooney	F16M 11/2014				381/355
			248/183.2	D400,540	S *	11/1998 Cruver, IV	D14/228
D220,108	S *	3/1971 Van de Poel	D14/228	D412,331	S *	7/1999 Nakamura	D14/155
3,661,376	A *	5/1972 Hill	B23Q 1/28	6,000,948	A *	12/1999 Peterson	H04R 1/08
			269/75				439/22
3,712,571	A *	1/1973 Miller	F16M 11/2014	D435,037	S *	12/2000 Liu	D14/228
			248/183.2	D439,852	S *	4/2001 Hisatsune	D10/104.1
3,718,862	A *	2/1973 Norris	H04B 5/06	D442,932	S *	5/2001 Koike	D14/155
			455/95	D445,819	S *	7/2001 Backs	D16/242
3,828,991	A *	8/1974 Moore	A45C 11/38	D447,131	S *	8/2001 Hough	D14/228
			224/610	D449,042	S *	10/2001 Chung	D14/228
D235,478	S *	6/1975 Armbruster	D16/131	D462,947	S *	9/2002 Kung	D14/228
D239,290	S *	3/1976 Saito et al.	D14/225	6,570,992	B1 *	5/2003 Folan	H04M 1/03
4,010,926	A *	3/1977 Carnahan	A47C 3/28				379/433.03
			248/411	6,671,382	B2 *	12/2003 Chen	H01R 35/02
4,034,946	A *	7/1977 Zimmer, Jr.	F21V 21/30				381/189
			248/183.2	D504,126	S *	4/2005 Saulespurens	D14/228
D247,706	S *	4/1978 Armstrong	D14/228	6,922,475	B2 *	7/2005 Hsieh	H04R 1/08
D250,221	S *	11/1978 Clark	D17/22				381/361
4,225,105	A *	9/1980 Nakamura	F16M 11/10	7,021,593	B1 *	4/2006 Fan	F16B 47/00
			248/184.1				248/206.2
4,344,184	A *	8/1982 Edwards	H04B 1/04	7,100,881	B2 *	9/2006 Worrall	F16C 11/0619
			343/702				116/173
D269,945	S *	8/1983 Carney	D8/355	D551,661	S *	9/2007 Probst	D14/225
D273,233	S *	3/1984 Norgate	D25/140	7,303,171	B1 *	12/2007 Chen	B60R 11/00
4,463,632	A *	8/1984 Parke	B25G 1/063				224/908
			403/93	D561,180	S *	2/2008 Aitchison	D14/229
D275,431	S *	9/1984 Usab	248/921	D563,396	S *	3/2008 Probst	D14/228
4,480,809	A *	11/1984 Healey	F16M 11/10	D567,810	S *	4/2008 Yeh	D14/253
			248/185.1	D579,928	S *	11/2008 Murata	D14/229
D277,852	S *	3/1985 Watson	D14/228	D599,786	S *	9/2009 Metlen	D14/225
4,600,077	A *	7/1986 Drever	H04R 1/086	D603,849	S *	11/2009 Durrett	D14/228
			181/158	D604,274	S *	11/2009 Durrett	D14/228
4,614,452	A *	9/1986 Wang	F16B 7/04	D605,637	S *	12/2009 Sank	D14/225
			403/146	D618,222	S *	6/2010 Kallas	D14/229
D286,787	S *	11/1986 Feinbloom	D16/130	D623,631	S *	9/2010 Kung	
4,628,525	A *	12/1986 Iwahara	H04R 1/086	D626,541	S *	11/2010 Kim	D14/253
			381/26	D634,307	S *	3/2011 Arpe	D14/228
D291,650	S *	9/1987 Monzen	D24/128	7,974,429	B2 *	7/2011 Tsai	H04R 1/08
4,789,044	A *	12/1988 Akino	H04R 1/38				381/361
			181/158	D649,139	S *	11/2011 Waay	D14/225
4,872,630	A *	10/1989 Cooper	B60R 11/00	8,076,889	B2 *	12/2011 Lai	F16M 11/2021
			248/278.1				318/575
D305,026	S *	12/1989 Wolf	D14/229	8,317,152	B1 *	11/2012 Zhou	F16M 11/041
D306,396	S *	3/1990 Brushaber	114/230.11				248/596
4,910,795	A *	3/1990 McCowen	H04R 1/04	8,556,218	B2 *	10/2013 Daisenberger	F16M 11/10
			455/95				248/185.1
D308,389	S *	6/1990 Horn	D16/219	D708,170	S *	7/2014 Duek	D14/225
D310,368	S *	9/1990 Derhaag	D14/225	8,848,962	B2 *	9/2014 Akino	H04R 19/04
D311,829	S *	11/1990 Vossoughi	D6/513				381/356
D332,789	S *	1/1993 Rak	D12/415	D745,494	S *	12/2015 Wise	D14/227
D337,333	S *	7/1993 Turk	D14/251	D746,269	S *	12/2015 Chen	D14/227
5,271,590	A *	12/1993 Rosen	F16M 11/10	D774,494	S *	12/2016 Sunwoo	D14/227
			248/222.13	D791,742	S *	7/2017 Lai	D14/225
D347,841	S *	6/1994 Rossman	D14/452	D834,004	S *	11/2018 Chen	D14/226
				D834,564	S *	11/2018 Chen	D14/226
				D834,566	S *	11/2018 Sunwoo	D14/227
				D835,612	S *	12/2018 Tong	D14/225
				D836,090	S *	12/2018 Li	D14/227
				D842,278	S *	3/2019 Tong	

(56)

References Cited

U.S. PATENT DOCUMENTS

D842,846 S * 3/2019 Mai D14/225
 D849,721 S * 5/2019 Chen D14/227
 D850,423 S 6/2019 Chen
 D851,073 S * 6/2019 Tong D14/227
 D864,921 S * 10/2019 Mai D14/227
 D864,922 S * 10/2019 Mai D14/227
 D868,754 S * 12/2019 Chou D14/225
 D881,168 S * 4/2020 Chen D14/228
 D889,442 S * 7/2020 Bovin D14/228
 D890,141 S * 7/2020 Chen D14/228
 D890,732 S * 7/2020 Chen D14/227
 D892,090 S * 8/2020 Xiang D14/228
 D895,583 S * 9/2020 Smith D14/227
 D898,001 S * 10/2020 Chen D14/228
 D898,771 S * 10/2020 You D14/497
 D905,023 S * 12/2020 Renwick D14/227
 2003/0179898 A1 * 9/2003 Chen H04R 1/08
 381/355

2005/0056751 A1 * 3/2005 Slatter A01K 91/08
 248/288.11
 2006/0002576 A1 * 1/2006 Akino H04R 1/021
 381/361
 2007/0012825 A1 * 1/2007 Yeh F16M 11/105
 248/122.1
 2008/0061199 A1 * 3/2008 Chen F16M 11/2064
 248/205.8
 2008/0152174 A1 * 6/2008 Marshall H04R 19/04
 381/172
 2010/0208929 A1 * 8/2010 Heil H04R 11/04
 381/355
 2010/0237206 A1 * 9/2010 Barker G03B 17/561
 248/206.5
 2011/0044477 A1 * 2/2011 Huang H04R 1/083
 381/122
 2014/0071339 A1 * 3/2014 Baker G03B 17/48
 348/373
 2017/0149121 A1 * 5/2017 Zachara H01Q 11/08

* cited by examiner

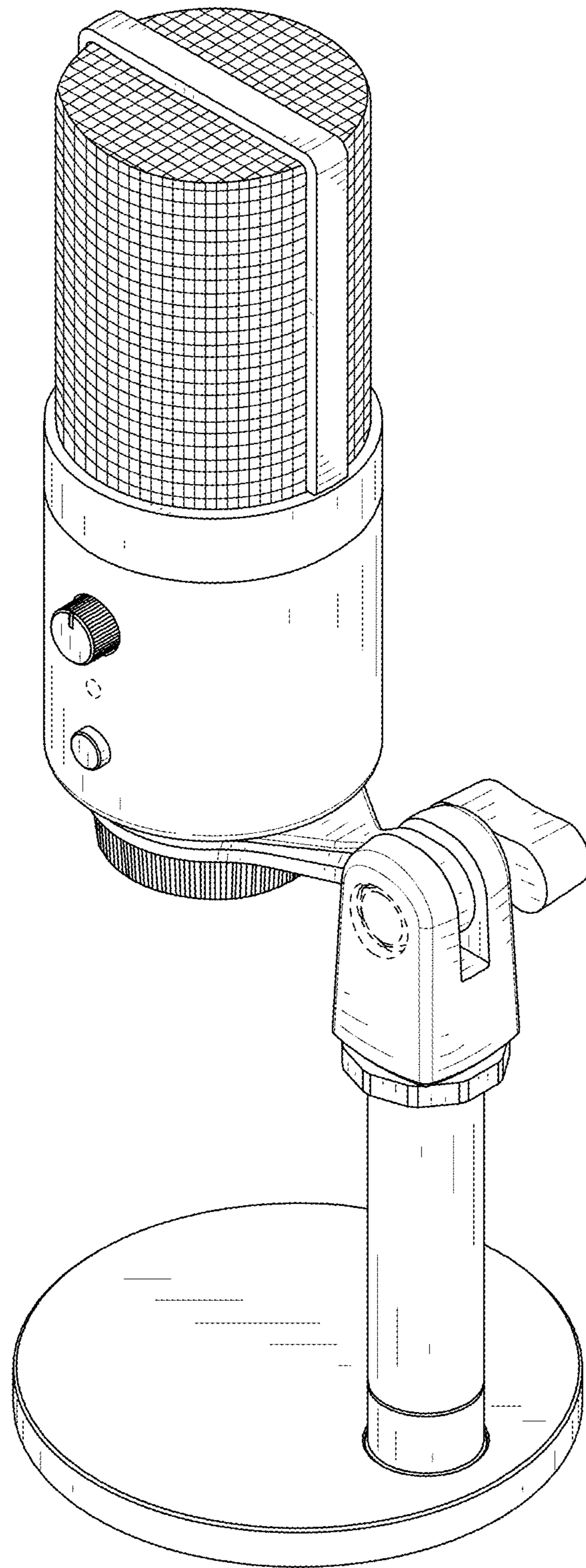


FIG. 1

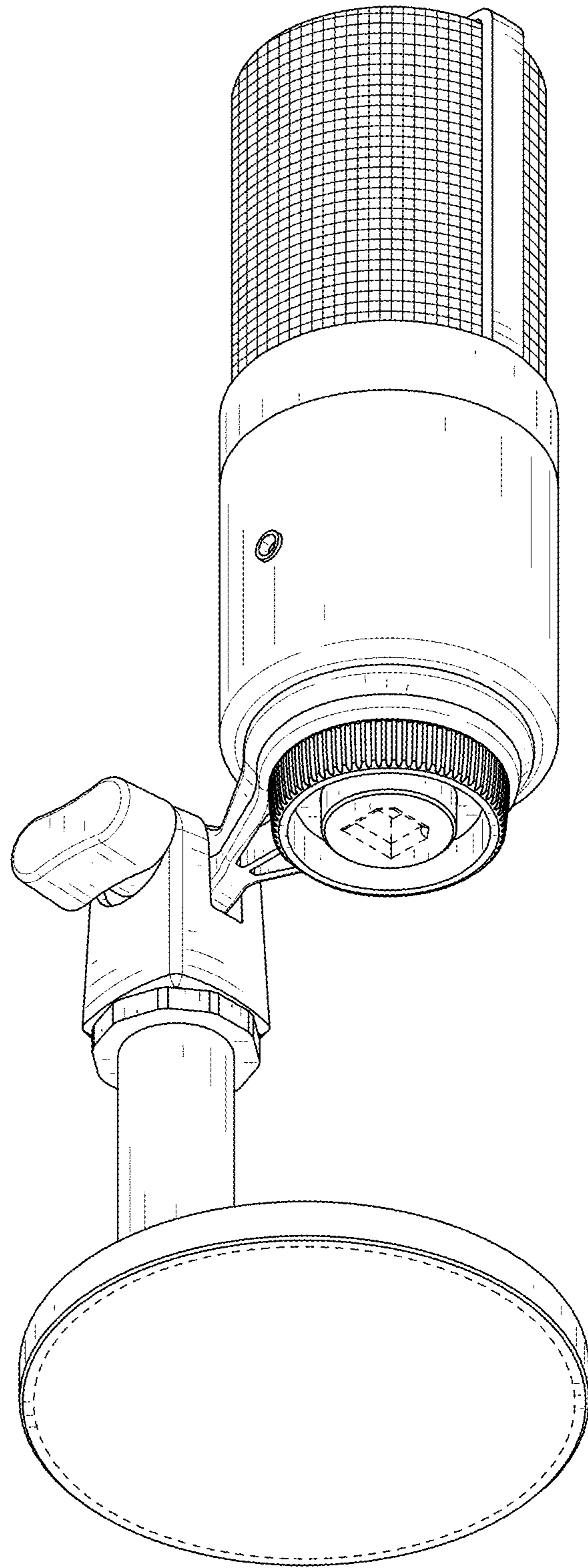


FIG. 2

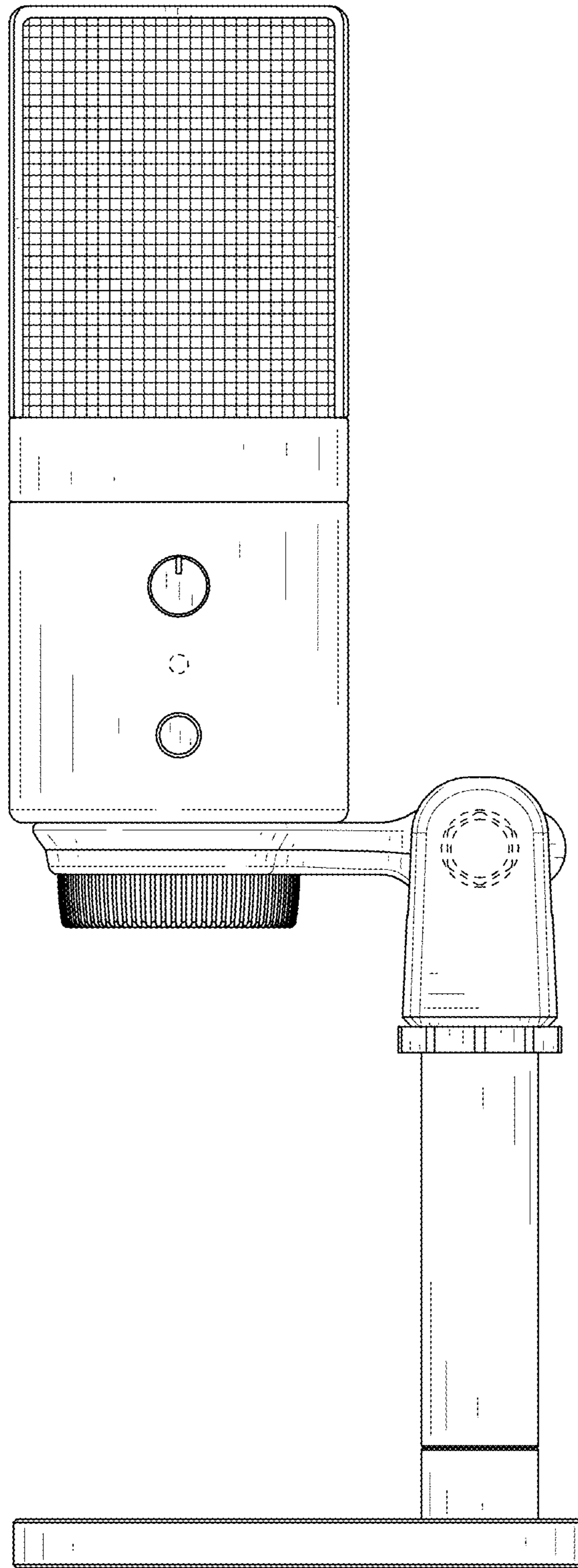


FIG. 3

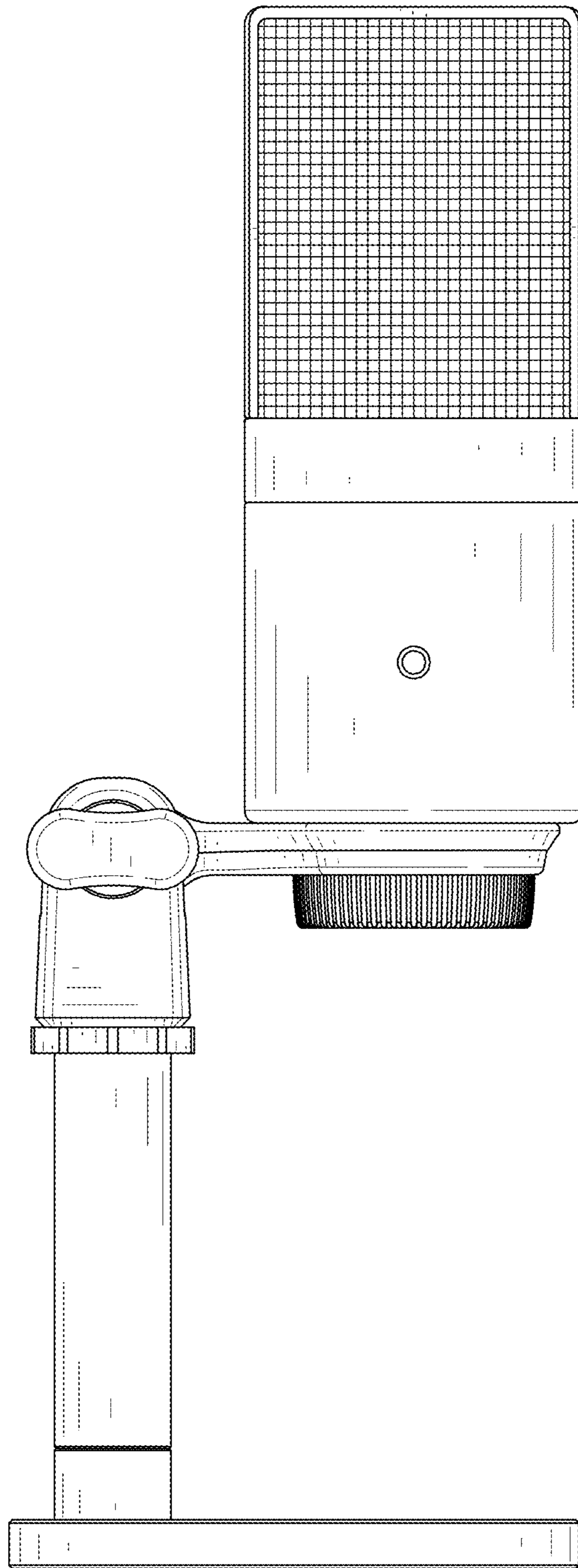


FIG. 4

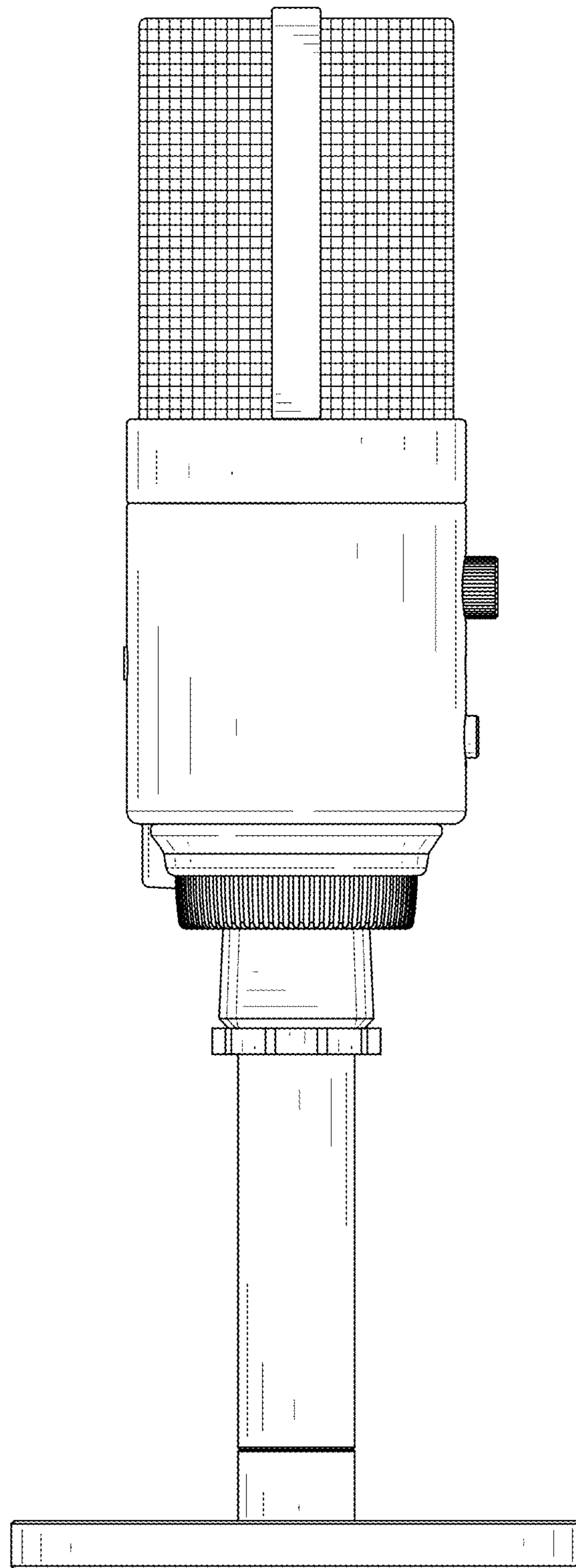


FIG. 5

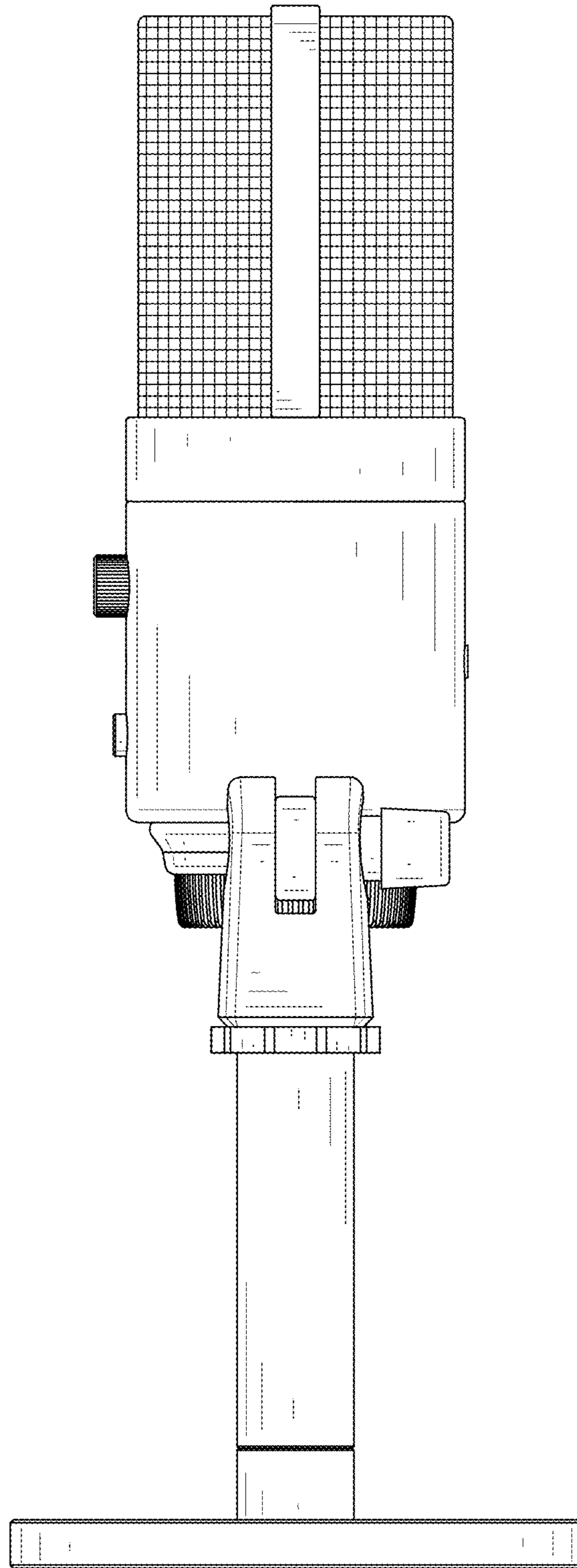


FIG. 6

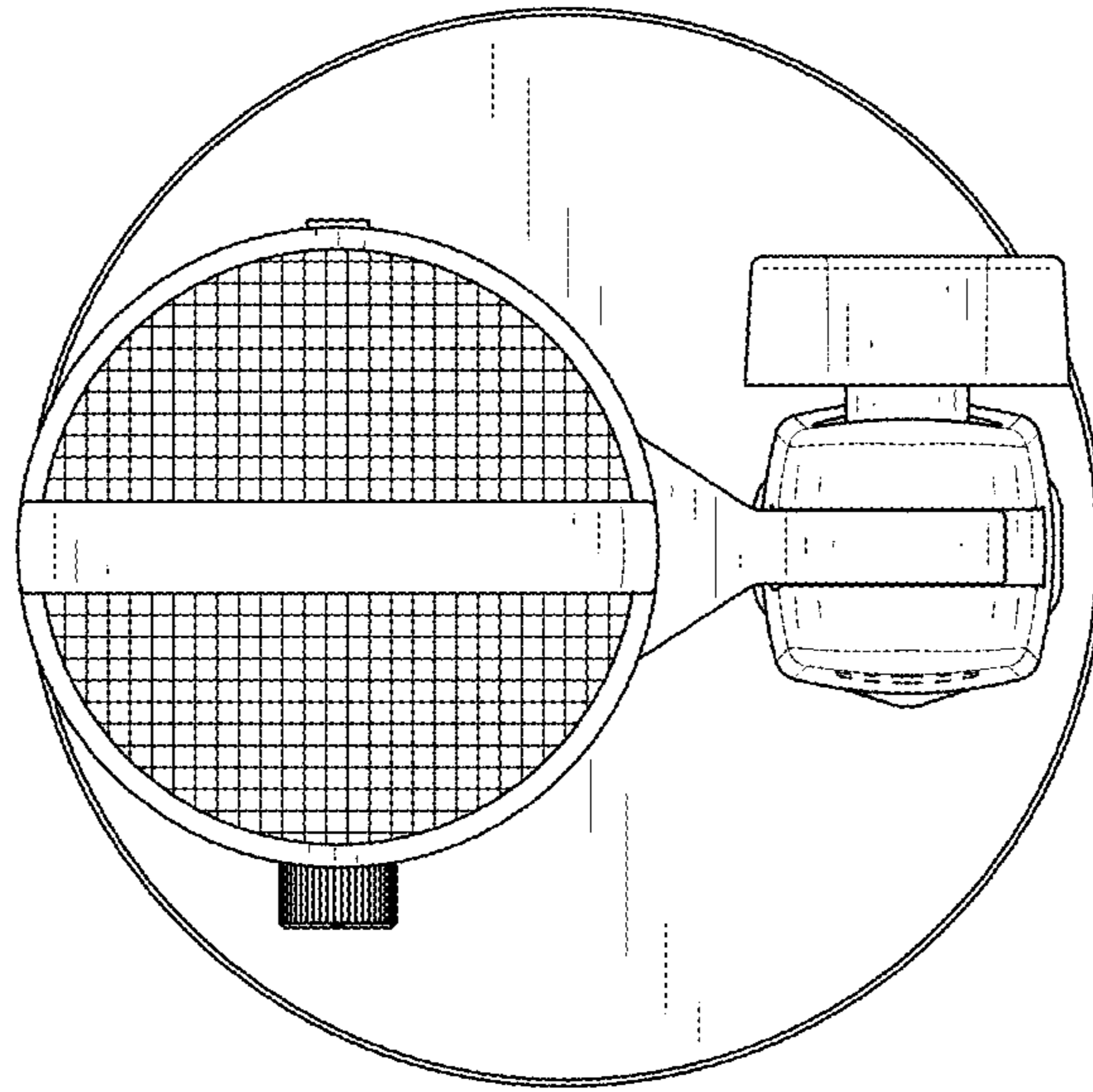


FIG. 7

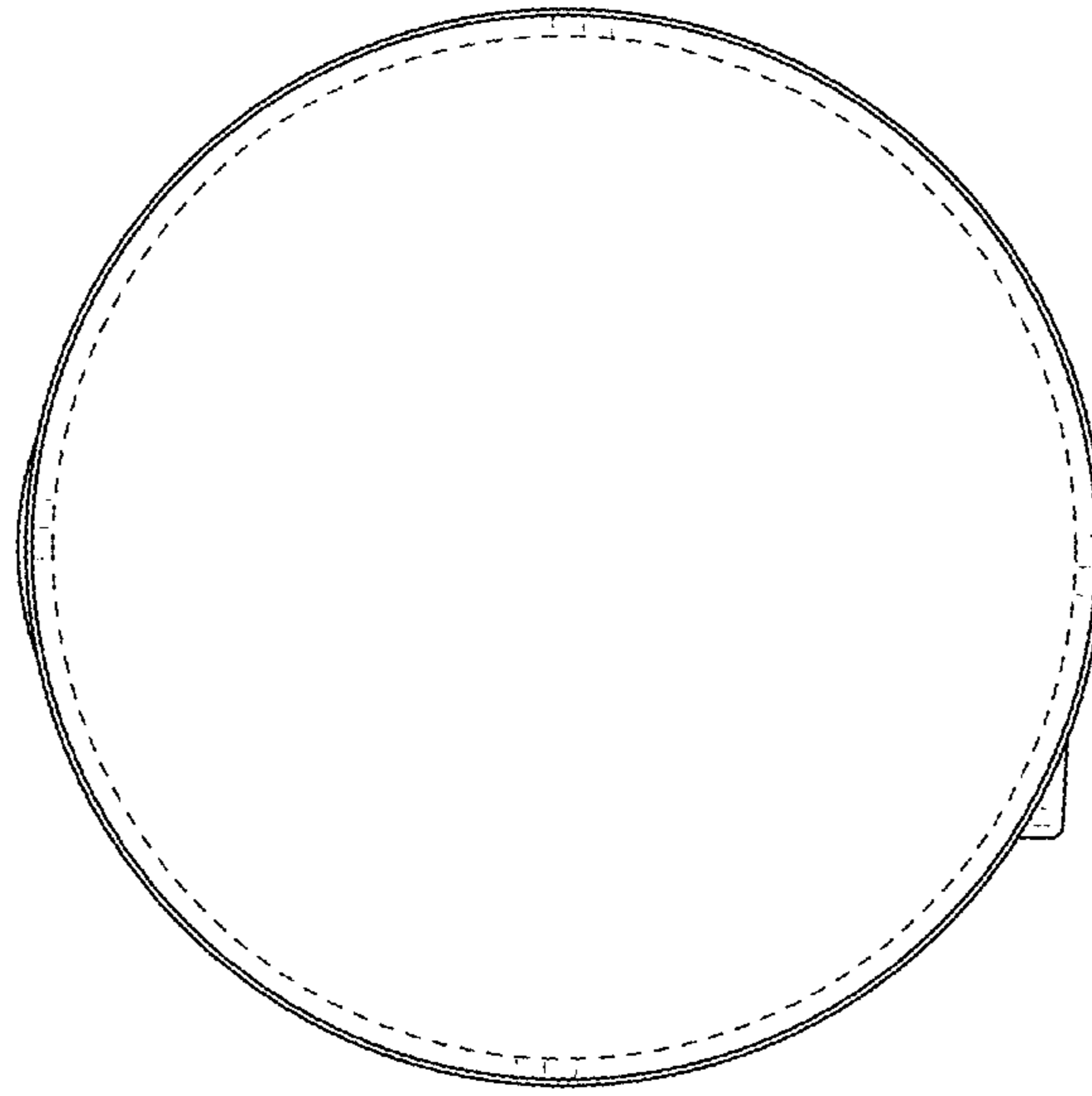


FIG. 8