



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

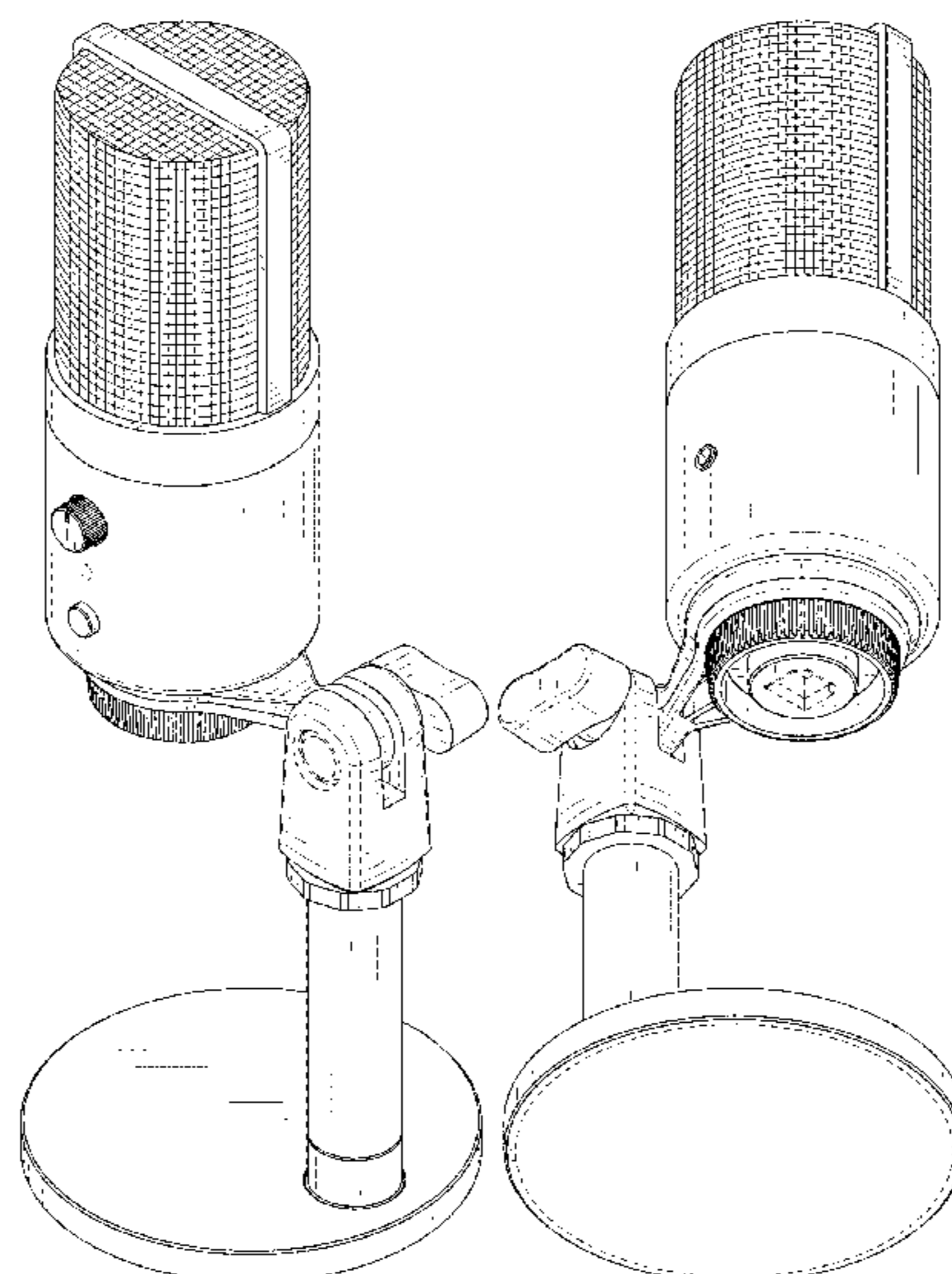
(57) **CLAIM**

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

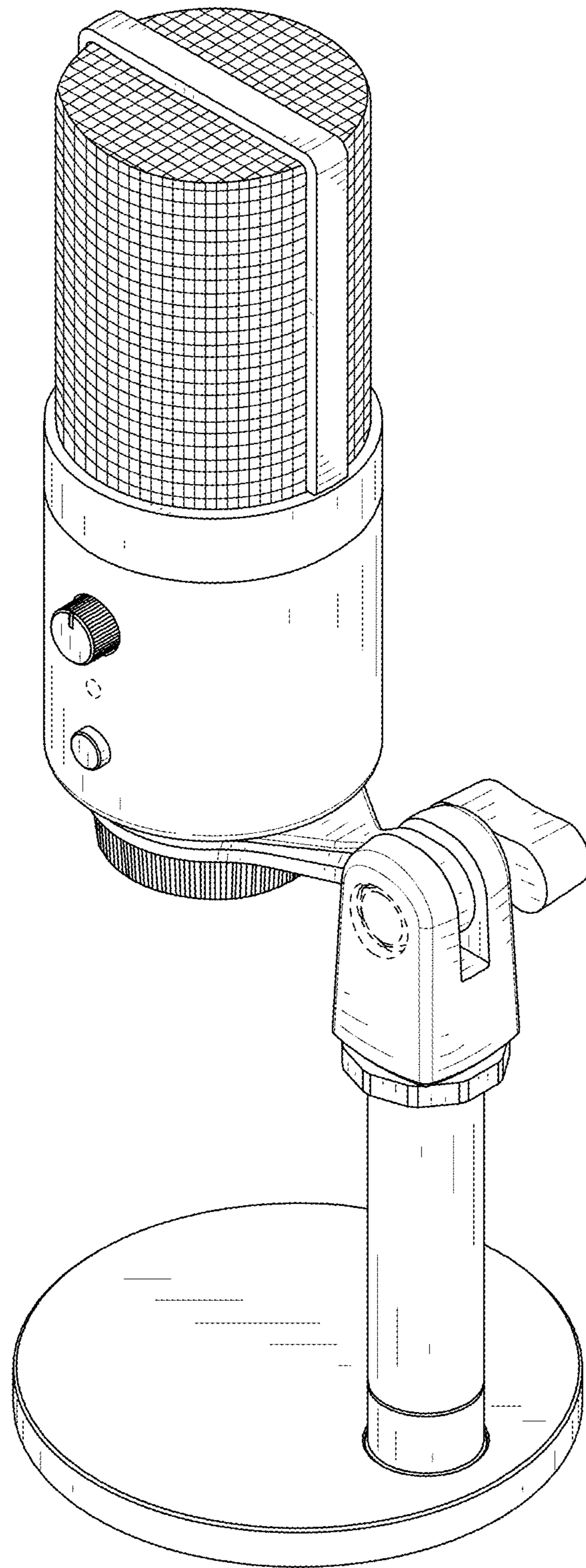


FIG. 1

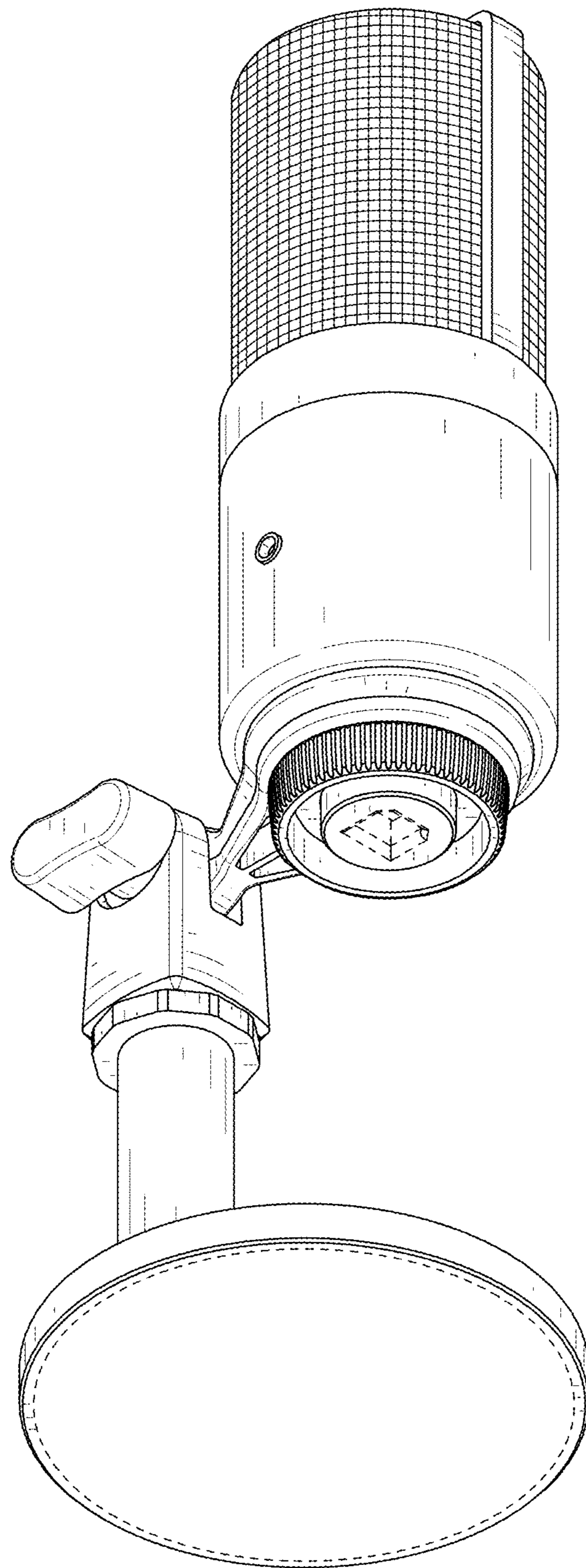


FIG. 2

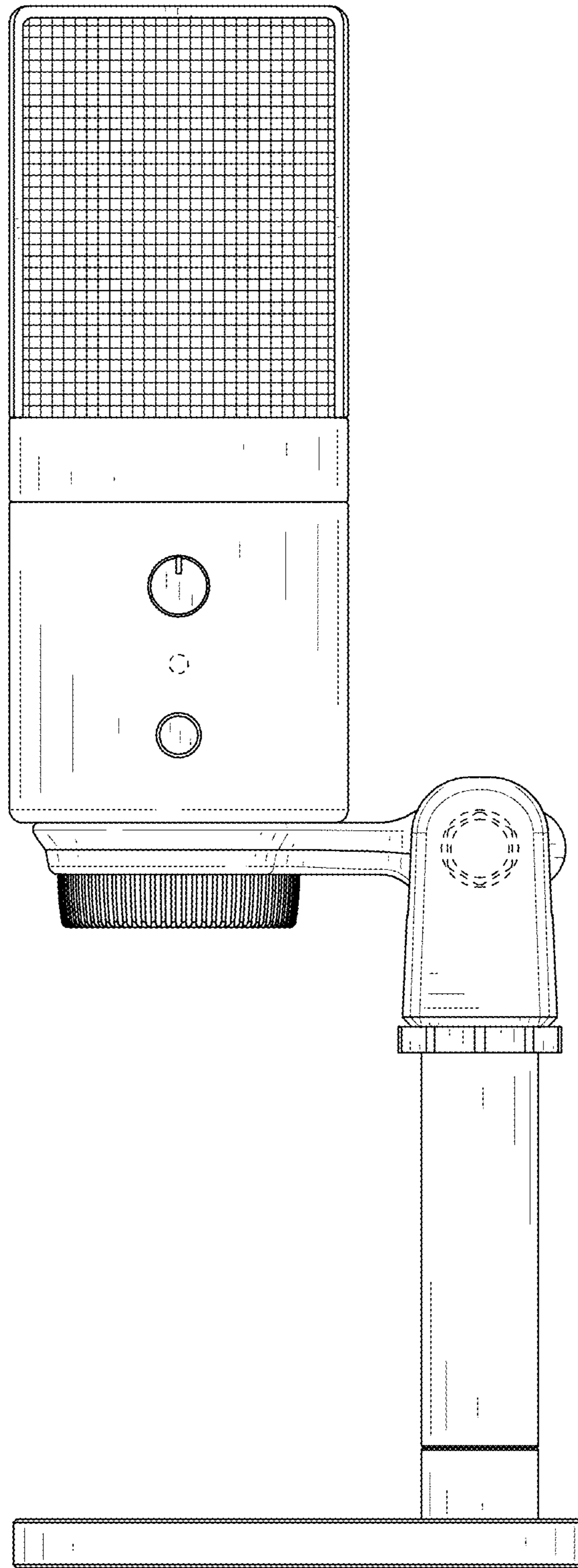


FIG. 3

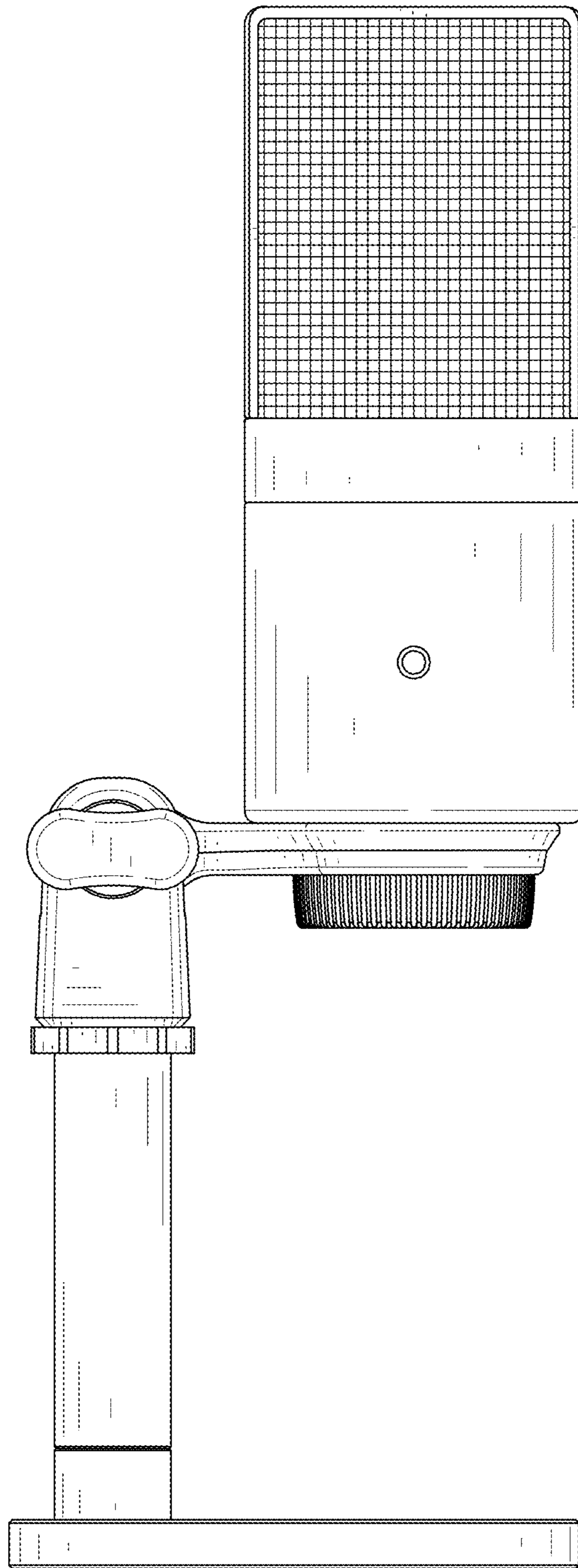


FIG. 4

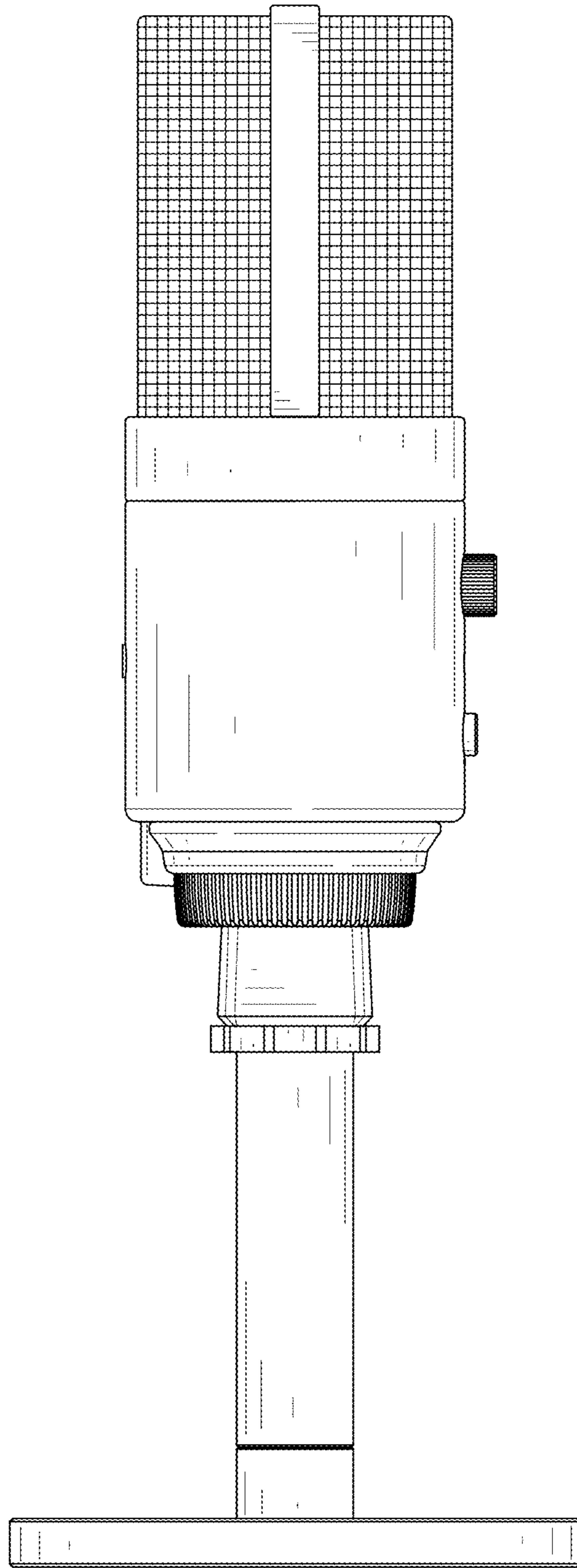


FIG. 5

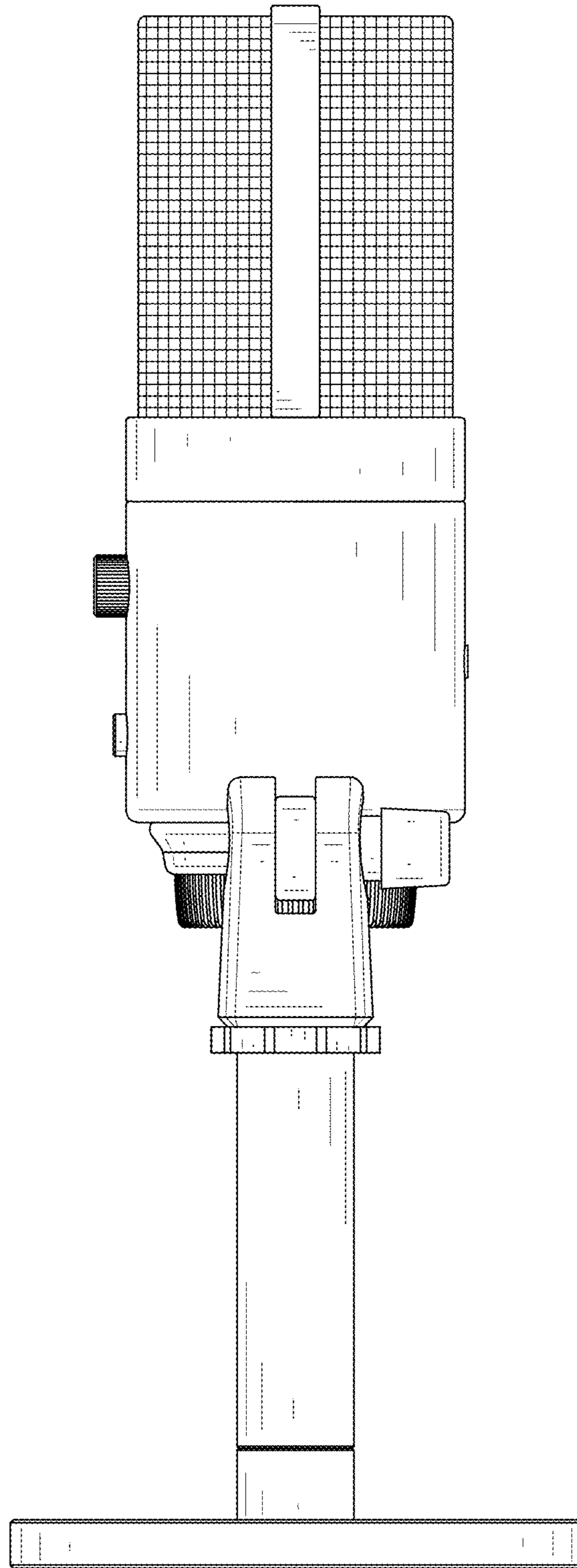


FIG. 6

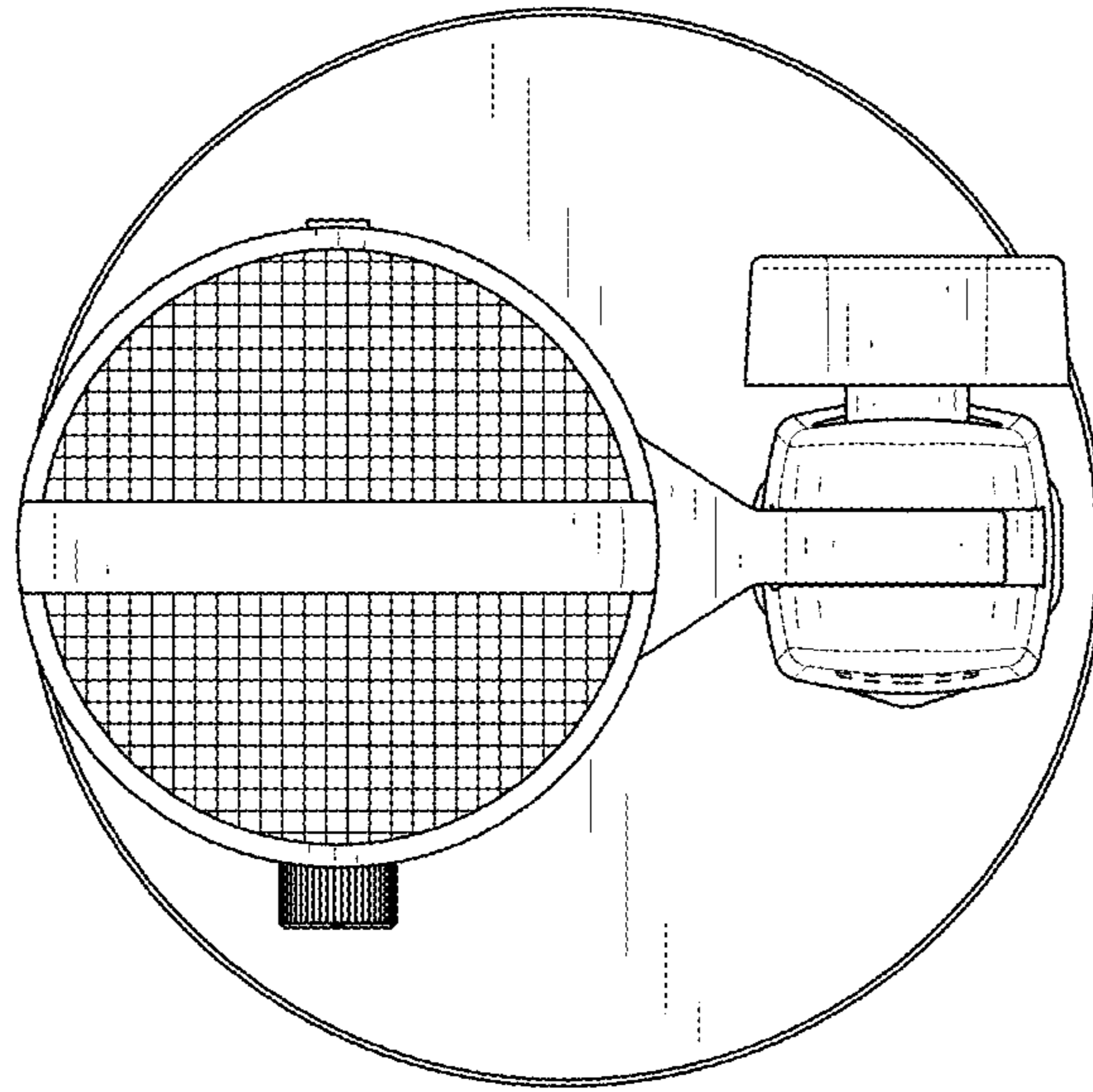


FIG. 7

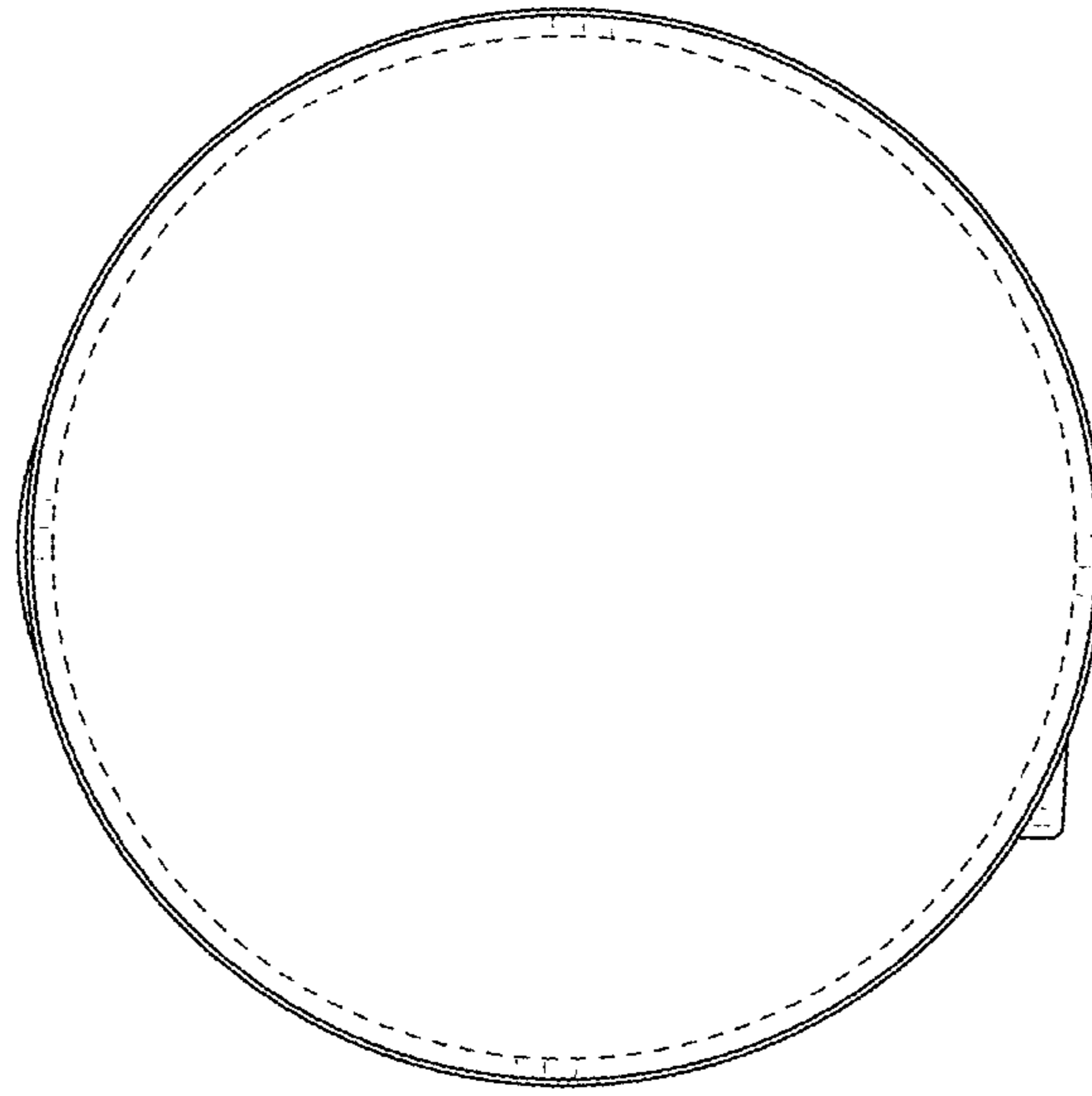


FIG. 8