

US00D908149S

(12) **United States Design Patent** (10) **Patent No.:** **US D908,149 S**
Hansen et al. (45) **Date of Patent:** **** Jan. 19, 2021**

(54) **ANGLE GRINDER DUST SHROUD WITH VARIABLE POSITION SLOTS FOR MOUNTING BRACKETS**

FOREIGN PATENT DOCUMENTS

DE 3811197 10/1989
EP 556713 8/1993

(Continued)

(71) Applicant: **Dustless Depot, LLC**, Price, UT (US)

(72) Inventors: **Kendall Hansen**, Price, UT (US);
Spencer Loveless, Price, UT (US)

OTHER PUBLICATIONS

Bosch TG502 Tuck pointing grinder guard, accessed 2018, from Amazon.ca.

(73) Assignee: **Dustless Depot LLC**, Price, UT (US)

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

Primary Examiner — Patricia A Palasik

(21) Appl. No.: **29/671,887**

(74) *Attorney, Agent, or Firm* — Pate Peterson PLLC;
Brett Peterson

(22) Filed: **Nov. 30, 2018**

(57) **CLAIM**

Related U.S. Application Data

We claim the ornamental design for the angle grinder dust shroud with variable position slots for mounting brackets, as shown and described.

(63) Continuation-in-part of application No. 16/168,475, filed on Oct. 23, 2018.

DESCRIPTION

(51) **LOC (13) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/138; D8/70**

(58) **Field of Classification Search**
USPC D8/70, 396; 15/124, 126, 138
CPC B24B 23/02; B24B 23/028; B24B 55/052;
B24B 55/102; Y10T 83/73
See application file for complete search history.

FIG. 1 is a perspective view of the angle grinder dust shroud with variable position slots for mounting brackets.
FIG. 2 is a front view thereof.
FIG. 3 is a back view thereof.
FIG. 4 is a left view thereof.
FIG. 5 is a right view thereof.
FIG. 6 is a top view thereof.
FIG. 7 is a bottom view thereof.
FIG. 8 is another perspective view of the angle grinder dust shroud with variable position slots for mounting brackets.
FIG. 9 is a front view thereof.
FIG. 10 is a back view thereof.
FIG. 11 is a left view thereof.
FIG. 12 is a right view thereof.
FIG. 13 is a top view thereof; and,
FIG. 14 is a bottom view thereof.

(56) **References Cited**

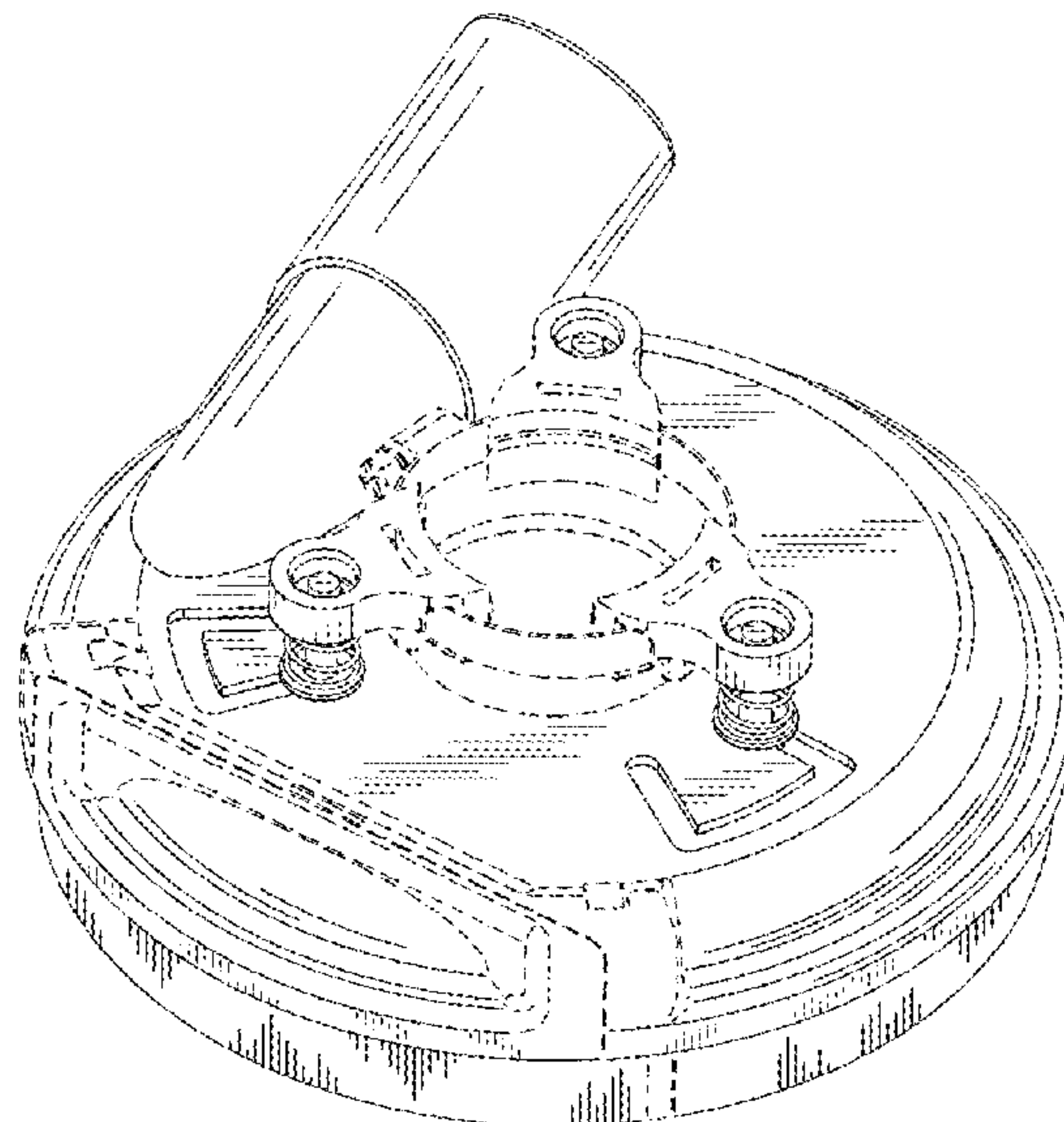
U.S. PATENT DOCUMENTS

437,004 A 9/1890 Shipley
907,734 A 12/1908 Butterfield
1,123,562 A 1/1915 Lund
1,197,967 A 9/1916 Swenson
1,302,263 A 4/1919 Woodworth
RE15,262 E 1/1922 Gurgel
1,432,660 A 10/1922 Borque
1,643,882 A 9/1927 Faiver
1,779,031 A 10/1930 Casey

The broken lines depict environment and form no part of the claimed design.

(Continued)

1 Claim, 14 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

1,850,504 A	3/1932	Janes	5,131,192 A	7/1992	Cheng
2,032,382 A	3/1936	Torrison	5,163,252 A	11/1992	Garner et al.
2,041,689 A	5/1936	Baumeister	5,167,215 A	12/1992	Harding, Jr.
2,212,361 A	8/1940	Arthur	5,170,588 A	12/1992	Schaal
2,279,186 A	4/1942	Terry et al.	5,176,408 A	1/1993	Pedersen
2,291,269 A	7/1942	Wiggleworth	5,201,785 A	4/1993	Nagano
2,294,272 A	8/1942	Boice	5,237,781 A	8/1993	Demetrius
2,312,443 A	3/1943	Reiter	5,259,087 A	11/1993	Loveless et al.
2,384,688 A	9/1945	Morris	5,305,729 A	4/1994	Chiuminatta et al.
2,440,684 A	5/1948	Huelster	5,327,649 A	7/1994	Skinner
2,440,685 A	5/1948	Huelster	5,339,571 A	8/1994	Timmons et al.
2,503,854 A	4/1950	Trainor	5,381,780 A	1/1995	Yelton et al.
2,520,725 A	8/1950	Judd	5,411,433 A	5/1995	Keller
2,676,624 A	4/1954	Gecman	5,435,066 A	7/1995	Bare
2,803,098 A	8/1957	Robert et al.	5,440,809 A	8/1995	Padilla
2,817,134 A	12/1957	Fenton	5,445,056 A	8/1995	Folci
2,819,570 A	1/1958	Guilbert et al.	5,527,207 A	6/1996	Azar et al.
2,819,571 A	1/1958	Morgan	5,545,082 A	8/1996	Courson et al.
2,994,995 A	8/1961	Griffith	5,558,571 A	9/1996	Toyoshima et al.
3,166,877 A	1/1965	Reames	5,564,408 A	10/1996	Bassols
3,256,648 A	6/1966	Subonovich	5,566,457 A	10/1996	Batschari et al.
3,468,076 A	9/1969	Jones	5,575,035 A	11/1996	Reis et al.
3,511,322 A	5/1970	Holman	D376,526 S	12/1996	Hepburn
3,667,170 A	6/1972	MacKay	5,582,225 A	12/1996	Schank
3,673,744 A	7/1972	Oimoen	5,588,213 A	12/1996	Swanberg
3,826,045 A	7/1974	Champayne	5,609,516 A	3/1997	Courson et al.
3,835,543 A	9/1974	Polydoris et al.	5,653,561 A	8/1997	May
3,848,686 A	11/1974	Jysky et al.	5,662,440 A	9/1997	Kikuchi
3,862,521 A	1/1975	Isaksson	5,675,895 A	10/1997	Mori et al.
3,882,598 A	5/1975	Earle et al.	5,680,704 A	10/1997	Okubo
3,882,644 A	5/1975	Cusumano	5,688,082 A	11/1997	Richardson
3,945,281 A	3/1976	Kreitz	5,704,956 A	1/1998	Loveless et al.
3,987,589 A	10/1976	Marton	5,713,785 A	2/1998	Nishio
4,011,792 A	3/1977	Davis	D392,531 S	3/1998	Richardson
4,016,649 A	4/1977	Kloster	5,774,992 A	7/1998	Lindenmuth
4,033,035 A	7/1977	Trimmer	5,791,979 A	8/1998	Duncan et al.
4,063,478 A	12/1977	Stuy	5,815,933 A	10/1998	Staniszewski
4,090,297 A	5/1978	Wanner	5,816,733 A	10/1998	Ishikawa et al.
4,135,334 A	1/1979	Rudiger	5,819,619 A	10/1998	Miller et al.
4,160,319 A	7/1979	Caruso	5,931,072 A	8/1999	Shibata
4,201,256 A	5/1980	Truhan	5,941,765 A	8/1999	Taylor
4,241,505 A	12/1980	Bodycomb, Jr. et al.	5,954,863 A	9/1999	Loveless et al.
4,253,362 A	3/1981	Olson	6,019,433 A	2/2000	Allen
4,296,572 A	10/1981	Quintana	6,027,399 A	2/2000	Stewart
4,300,426 A	11/1981	Weaver	6,053,674 A	4/2000	Thompson
4,326,864 A	4/1982	Sittler	6,108,912 A	8/2000	Radigan
4,367,665 A	1/1983	Terpstra et al.	6,112,736 A	9/2000	Bearden
4,381,628 A	5/1983	Dicke	6,138,317 A	10/2000	Holmes et al.
4,400,995 A	8/1983	Palm	6,167,626 B1	1/2001	Doumani et al.
4,456,303 A	6/1984	Due	6,183,527 B1	2/2001	O'Banion et al.
4,515,504 A	5/1985	Moore	6,219,922 B1	4/2001	Campbell et al.
4,566,511 A	1/1986	Robinson	6,230,411 B1	5/2001	Wall
4,574,532 A	3/1986	Haberle et al.	6,273,081 B1	8/2001	Gorgol et al.
4,576,072 A	3/1986	Terpstra et al.	6,318,352 B1	11/2001	Gnazzo et al.
4,622,782 A	11/1986	Roestenberg	6,347,985 B1	2/2002	Loveless
4,641,401 A	2/1987	Hasegawa	6,349,712 B1	2/2002	Halstead
4,646,480 A	3/1987	Williams	D456,234 S	4/2002	Keller
4,697,389 A	10/1987	Romine	6,375,557 B1	4/2002	Spangenberg et al.
4,761,877 A	8/1988	Rupp	D456,685 S	5/2002	Keller
4,765,099 A	8/1988	Tanner	D458,825 S	6/2002	Keller et al.
4,782,632 A	11/1988	Matechuk	6,412,179 B1	7/2002	Ende
4,868,949 A	9/1989	Loveless et al.	6,470,778 B1	10/2002	Kaye, Jr. et al.
4,891,915 A	1/1990	Yasuda	6,471,574 B1	10/2002	Rupprecht et al.
4,921,308 A	5/1990	Yelton et al.	6,557,261 B1	5/2003	Buser et al.
4,921,375 A	5/1990	Famulari	6,568,088 B1	5/2003	Ende
4,930,264 A	6/1990	Huang	6,648,742 B1	11/2003	Segiel
4,932,163 A	6/1990	Chilton et al.	6,651,343 B2	11/2003	Laren et al.
4,932,164 A	6/1990	Sullivan et al.	6,678,960 B2	1/2004	Williams
5,033,552 A	7/1991	Hu	6,679,145 B1	1/2004	Lee
5,034,041 A	7/1991	Austin	6,699,114 B1	3/2004	Booeshaghi et al.
5,069,695 A	12/1991	Austin	6,726,554 B1	4/2004	Chen et al.
5,074,044 A	12/1991	Duncan et al.	6,748,660 B2	6/2004	Buser et al.
5,084,972 A	2/1992	Waugh	6,786,556 B2	9/2004	Due
5,105,585 A	4/1992	Hampl et al.	6,796,208 B1	9/2004	Jorgensen
5,125,190 A	6/1992	Buser et al.	6,811,476 B2	11/2004	Ohlendorf
			6,823,907 B2	11/2004	Cheng
			D499,946 S	12/2004	Stirm
			6,827,640 B2	12/2004	Bures et al.
			6,860,799 B2	3/2005	Loveless

(56)

References Cited

U.S. PATENT DOCUMENTS

6,878,050 B2	4/2005	Wendt et al.	9,038,275 B2	5/2015	Jensen et al.
6,886,441 B2	5/2005	Hamilton	D736,582 S	8/2015	Dietsche
6,887,146 B2	5/2005	Staas	9,101,993 B2	8/2015	Yokota et al.
6,896,604 B1	5/2005	Taylor	D741,557 S	10/2015	Young
6,896,605 B2	5/2005	Ohlendorf	D742,081 S	10/2015	Young
6,902,594 B2	6/2005	Cho	D742,710 S	11/2015	Wiedemann
6,935,939 B1	8/2005	Buser et al.	D743,230 S	11/2015	Wiedemann
6,948,412 B2	9/2005	Brazzell et al.	D774,865 S	12/2016	Chen
6,960,124 B2	11/2005	Lee	D793,456 S	8/2017	Lindsay
D513,161 S	12/2005	Chilton	D800,804 S	10/2017	Cappuccio
6,988,939 B2	1/2006	Hoffmann et al.	9,776,296 B2	10/2017	Brewster
6,997,653 B2	2/2006	Styles	9,937,638 B2	4/2018	Numata
7,000,605 B2	2/2006	Due	D816,453 S	5/2018	Hansen et al.
7,013,884 B2	3/2006	Guth	10,173,345 B2	1/2019	Numata et al.
7,014,547 B2	3/2006	Kleider	2001/0023168 A1	9/2001	Wuensch
7,044,039 B2	5/2006	Powell	2003/0032381 A1	2/2003	Dutterer
7,044,843 B1	5/2006	Lin	2003/0104767 A1	6/2003	Chilton
7,047,647 B1	5/2006	Muller	2003/0127904 A1	7/2003	Due
7,047,650 B2	5/2006	Chen	2003/0220060 A1	11/2003	Bures
7,069,831 B2	7/2006	Chang	2004/0206220 A1	10/2004	Keenan
7,112,005 B2	9/2006	Due	2005/0088866 A1	4/2005	Levine
7,159,323 B2	1/2007	Petrenko	2005/0155233 A1	7/2005	Chen
7,171,880 B2	2/2007	Powell	2005/0287938 A1	12/2005	Kodani
D537,691 S	3/2007	Lamprecht et al.	2006/0005681 A1	1/2006	Lambert et al.
D537,692 S	3/2007	Aglassinger	2006/0019585 A1	1/2006	Zayat
7,195,429 B2	3/2007	Dods et al.	2006/0086350 A1	4/2006	Due
7,197,826 B2	4/2007	Baxivanelis	2006/0147266 A1	7/2006	Due
7,198,559 B2	4/2007	Walstrum et al.	2006/0266184 A1	11/2006	Hetcher et al.
7,204,178 B2	4/2007	Bergmann	2007/0017197 A1	1/2007	Miller et al.
7,216,572 B2	5/2007	Keenan	2007/0079589 A1	4/2007	Ekstrom et al.
7,222,560 B2	5/2007	Parks et al.	2007/0155296 A1	7/2007	Hofmann et al.
7,223,161 B2	5/2007	Kodani et al.	2007/0178815 A1	8/2007	Buser
7,249,914 B2	7/2007	Due	2007/0193759 A1	8/2007	Sweig et al.
D553,933 S	10/2007	Esenwein	2007/0226948 A1	10/2007	Due
7,296,356 B2	11/2007	Ngan	2007/0228805 A1	10/2007	Due
7,300,337 B1	11/2007	Sun et al.	2007/0251104 A1	11/2007	Heinrichs
7,300,339 B2	11/2007	Gaul et al.	2008/0053282 A1	3/2008	Chen
7,322,429 B2	1/2008	Kim	2008/0060631 A1	3/2008	Dofher
7,438,633 B2	10/2008	Jespersen	2008/0099053 A1	5/2008	Loveless
D593,389 S	6/2009	Clayton	2008/0104936 A1	5/2008	Kellermann
7,578,063 B2	8/2009	Martin	2008/0109986 A1	5/2008	Loveless
7,625,265 B2	12/2009	Woods et al.	2008/0110527 A1	5/2008	Kuo
7,628,682 B2	12/2009	Andrasic et al.	2008/0146125 A1	6/2008	Loveless
7,635,293 B2	12/2009	Sun et al.	2008/0163492 A1	7/2008	Johansson
7,661,194 B1	2/2010	Ende	2008/0200103 A1	8/2008	Esenwein
7,661,195 B1	2/2010	Wood	2008/0244910 A1	10/2008	Patel
D614,678 S	4/2010	Jorgensen et al.	2008/0271323 A1	11/2008	Perlmutter
7,740,086 B2	6/2010	Bleicher et al.	2009/0181604 A1	7/2009	Loveless
7,805,805 B2	10/2010	Loveless	2009/0181605 A1	7/2009	Loveless
7,887,624 B2	2/2011	Ekstrom et al.	2009/0181606 A1	7/2009	Loveless
7,892,075 B2	2/2011	Esenwein	2009/0183377 A1	7/2009	Loveless
7,958,641 B1	6/2011	Ende	2009/0183800 A1	7/2009	Loveless
7,985,042 B1	7/2011	Paxton	2009/0186559 A1	7/2009	Loveless
8,011,398 B2	9/2011	Loveless	2009/0241283 A1	10/2009	Loveless
8,133,094 B2	3/2012	Loveless	2009/0298403 A1	12/2009	Yamashiro
8,137,165 B2	3/2012	Loveless	2009/0311953 A1	12/2009	Maute et al.
8,177,606 B2	5/2012	Loveless	2010/0005619 A1	1/2010	Loveless
8,181,559 B1	5/2012	Ende	2010/0058911 A1	3/2010	Goddard
8,209,872 B1	7/2012	Ende	2010/0170538 A1	7/2010	Baker et al.
8,381,711 B2	2/2013	Loveless	2010/0269353 A1	10/2010	Martin
D677,139 S	3/2013	Yamamoto	2010/0285729 A1	11/2010	Loveless
D677,545 S	3/2013	Sell	2010/0313867 A1	12/2010	Loveless
D677,547 S	3/2013	Rosenau	2011/0021121 A1	1/2011	Loveless
D677,548 S	3/2013	Rosenau	2011/0185581 A1	8/2011	Xing et al.
D678,028 S	3/2013	Rosenau	2011/0192262 A1	8/2011	Loveless
D687,195 S	7/2013	Sell	2012/0084986 A1	4/2012	Klawitter
8,523,637 B2	9/2013	Loveless	2012/0121354 A1	5/2012	Dickey
8,561,512 B2	10/2013	Loveless	2012/0186520 A1	7/2012	Hill
8,662,964 B2	3/2014	Hiller	2013/0104714 A1	5/2013	Dammertz et al.
8,702,478 B2	4/2014	Loveless et al.	2013/0198996 A1	8/2013	King
8,740,674 B2	6/2014	Esenwein	2014/0215752 A1	8/2014	Loveless
D717,844 S	11/2014	Cappuccio	2014/0260848 A1	9/2014	Gantke et al.
D719,806 S	12/2014	Wiedemann	2014/0329447 A1*	11/2014	Copeland E05D 7/00
8,978,781 B2	3/2015	Burdick et al.	2014/0352106 A1	12/2014	King
9,027,542 B2	5/2015	Ronzello	2016/0031054 A1	2/2016	Chang
			2016/0184963 A1	6/2016	Melancon
			2016/0368166 A1	12/2016	Numata et al.
			2017/0144096 A1	5/2017	Chen

(56)

References Cited

U.S. PATENT DOCUMENTS

2017/0225358 A1 8/2017 Carlsson
2018/0071845 A1 3/2018 Hansen et al.
2018/0169885 A1 6/2018 Okouchi
2020/0122294 A1* 4/2020 Loveless B24B 55/052
2020/0139508 A1* 5/2020 Ohlendorf B24B 55/102

FOREIGN PATENT DOCUMENTS

EP 0 579 964 1/1994
GB 2 260 721 4/1993
GB 2 262 159 6/1993
JP 02-122755 2/1990
JP H 06-278103 10/1994
JP 10-000559 1/1998
JP 10-015717 1/1998
JP 2001-96525 4/2001
JP 3128896 1/2007
KR 10-2002-0056086 7/2002
WO WO 99/44786 9/1999

* cited by examiner

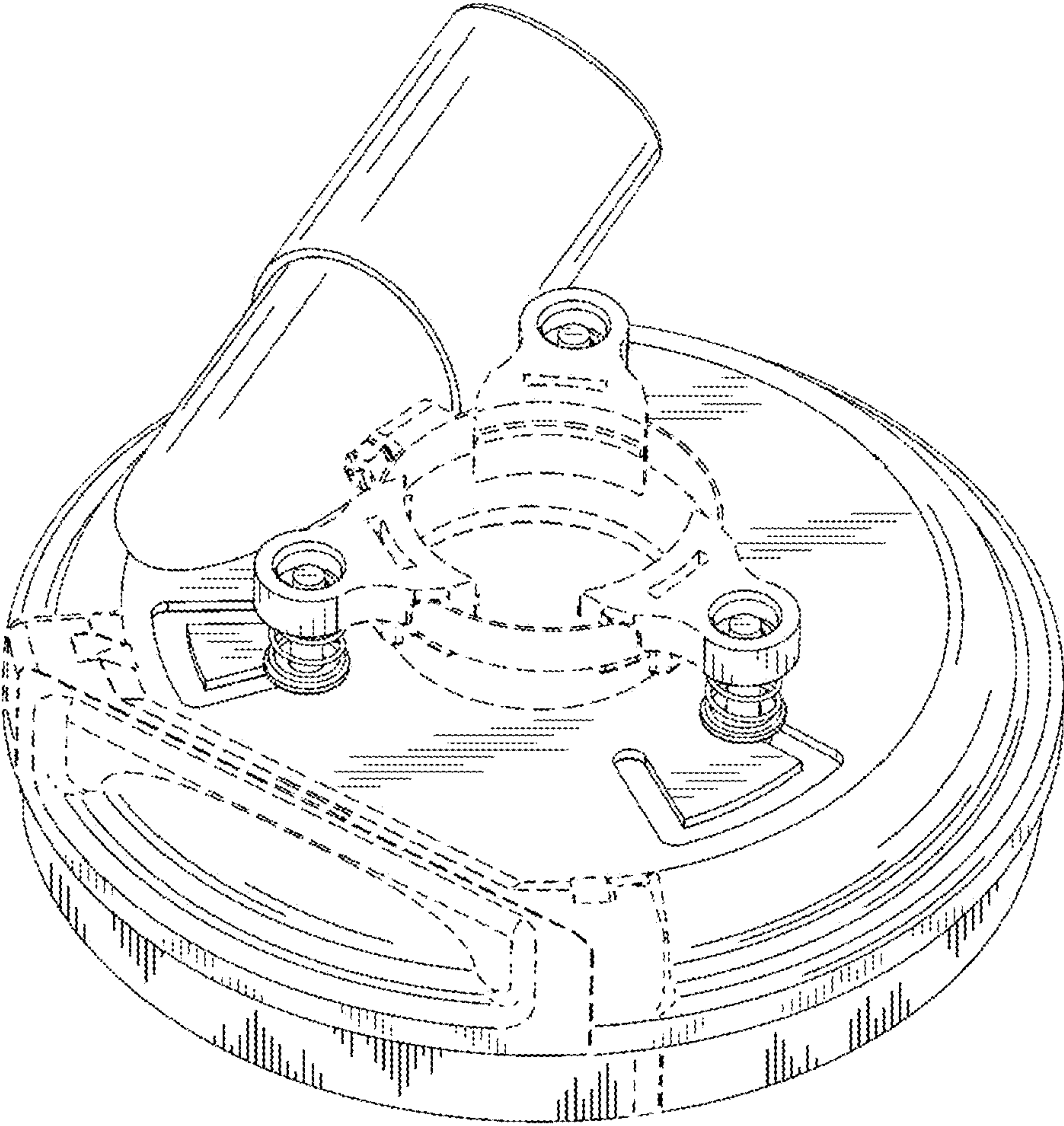


FIG 1

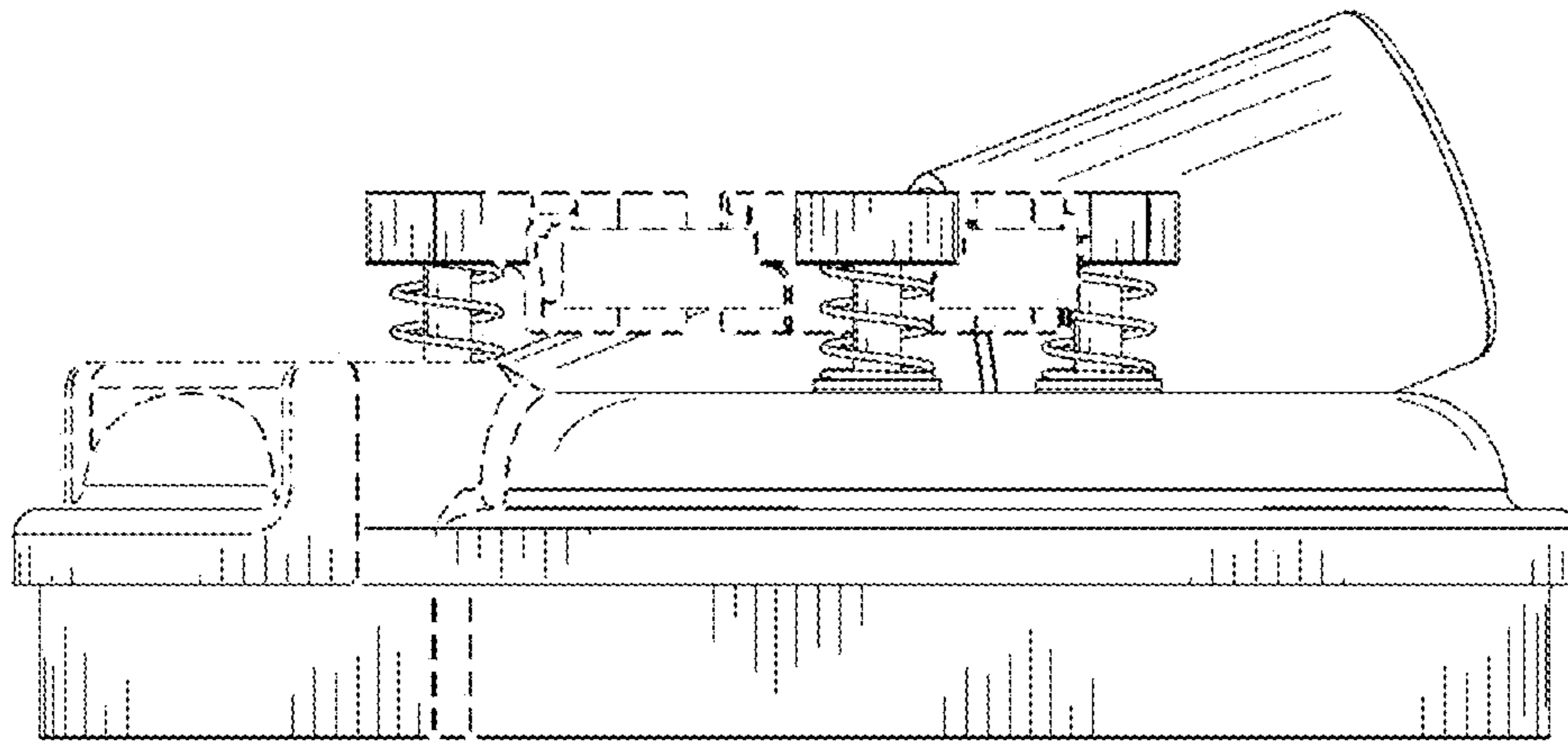


FIG 2

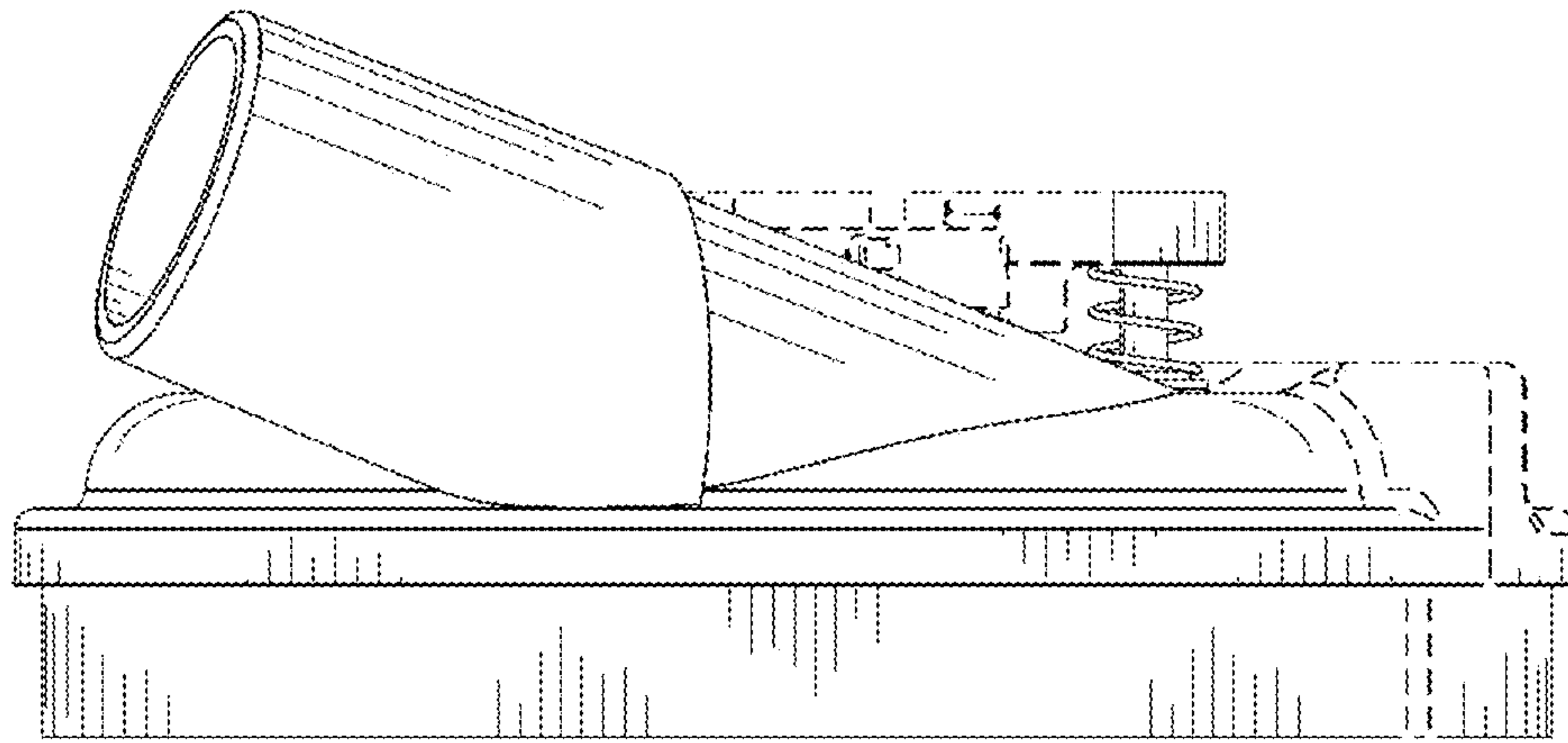


FIG 3

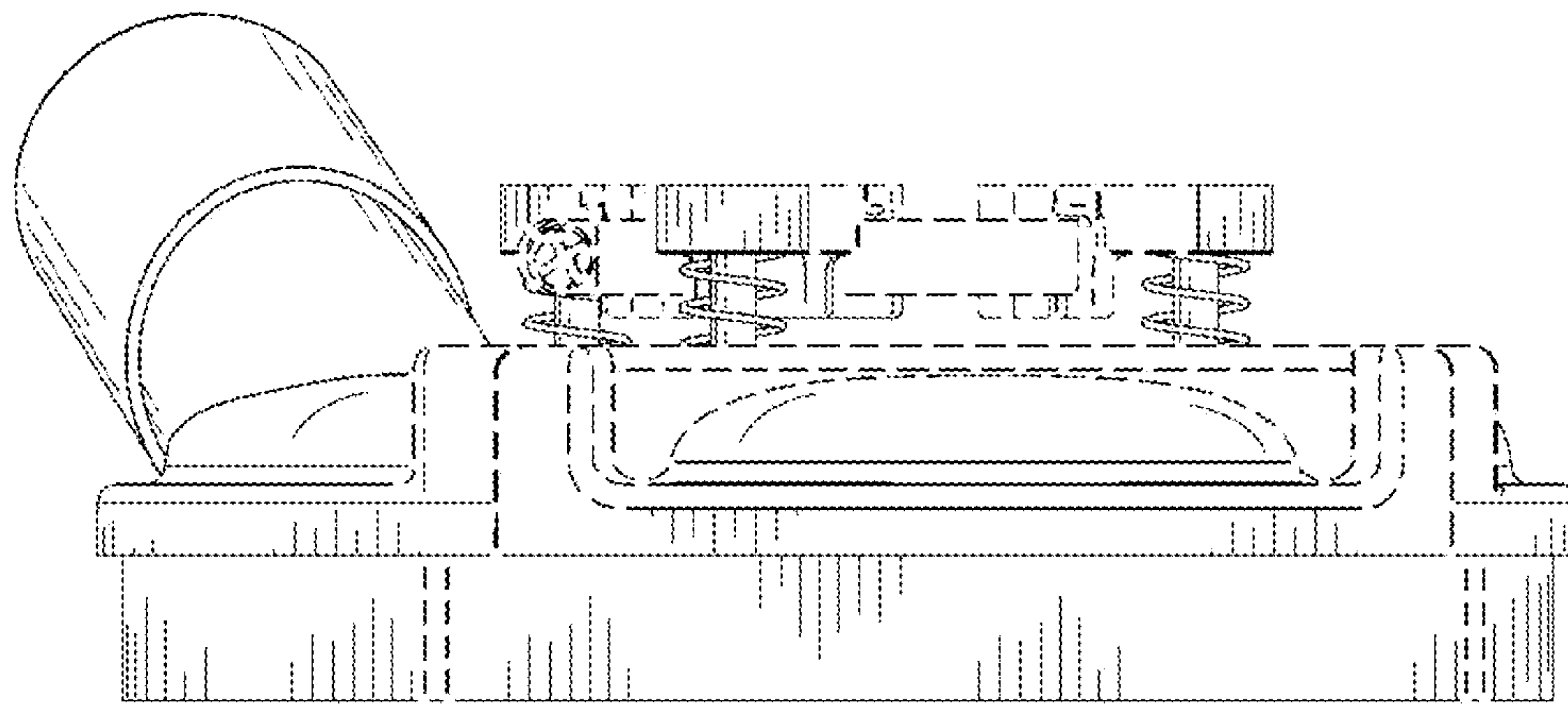


FIG 4

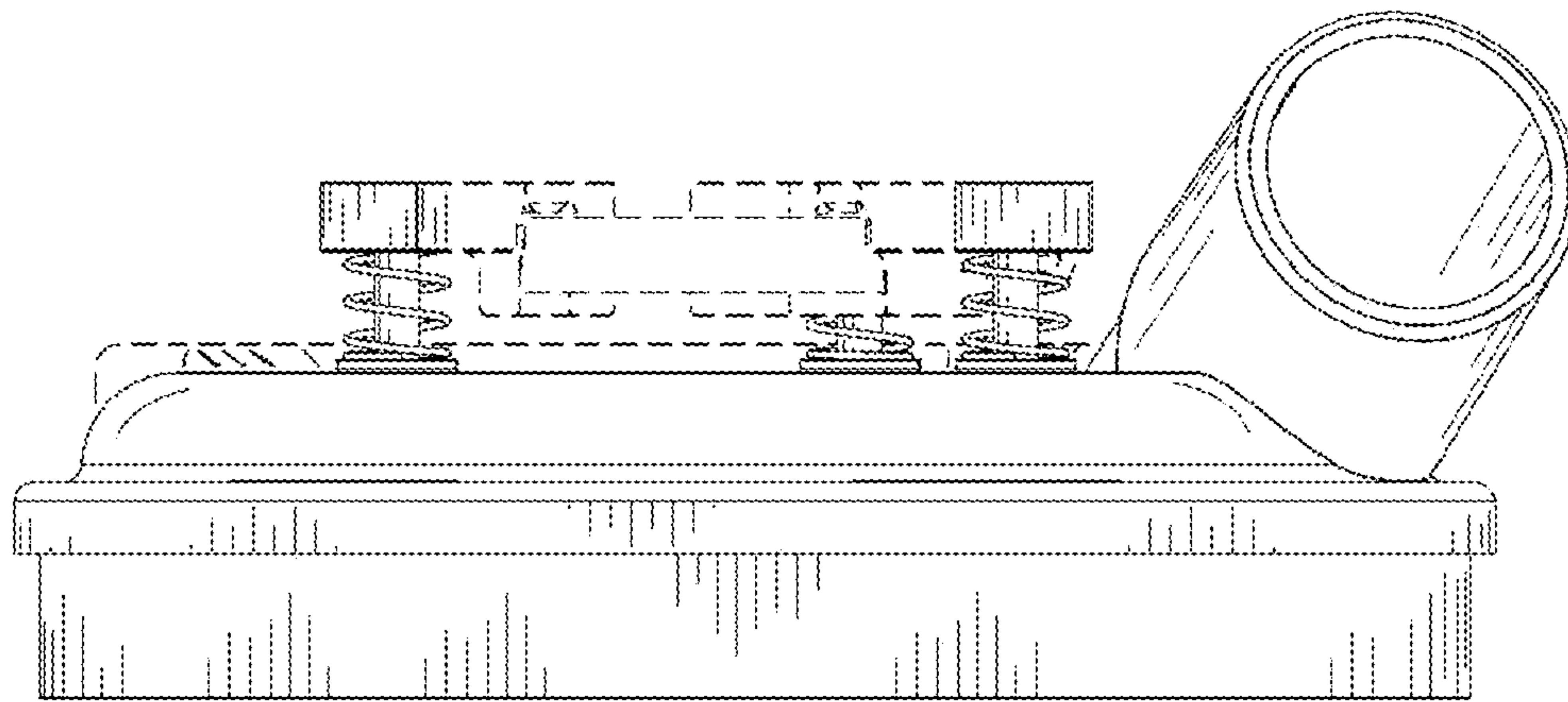


FIG 5

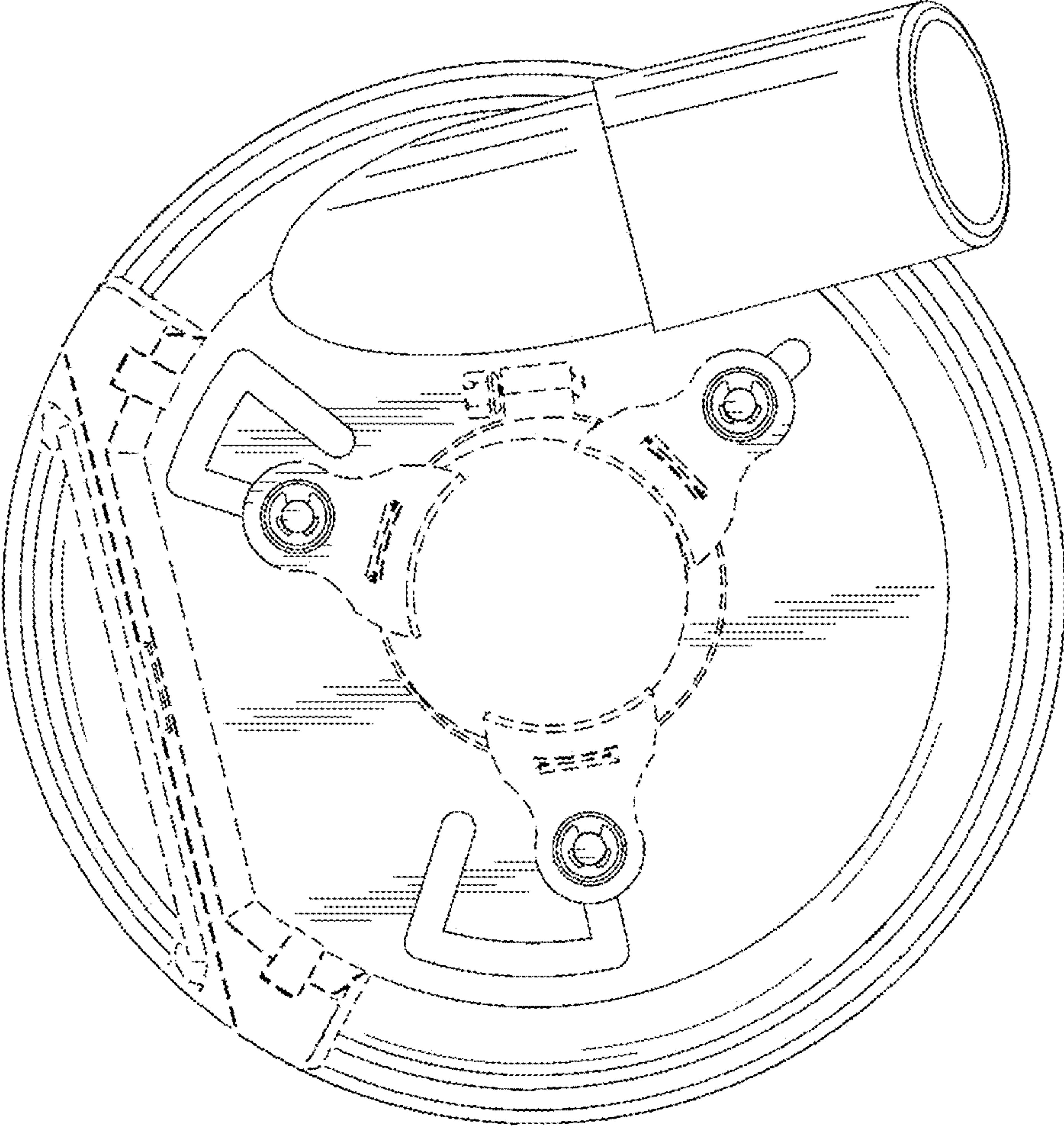


FIG 6

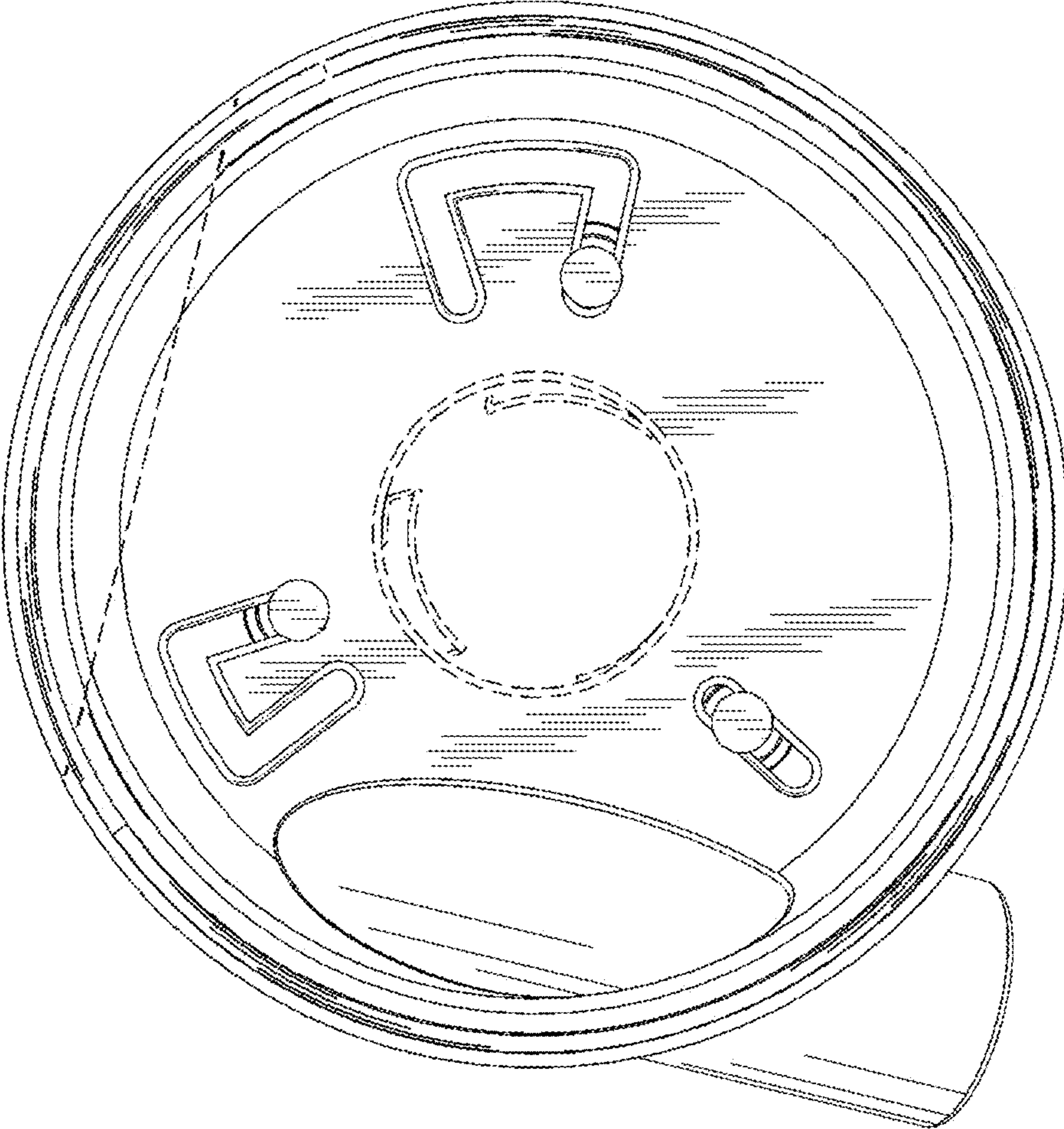


FIG 7

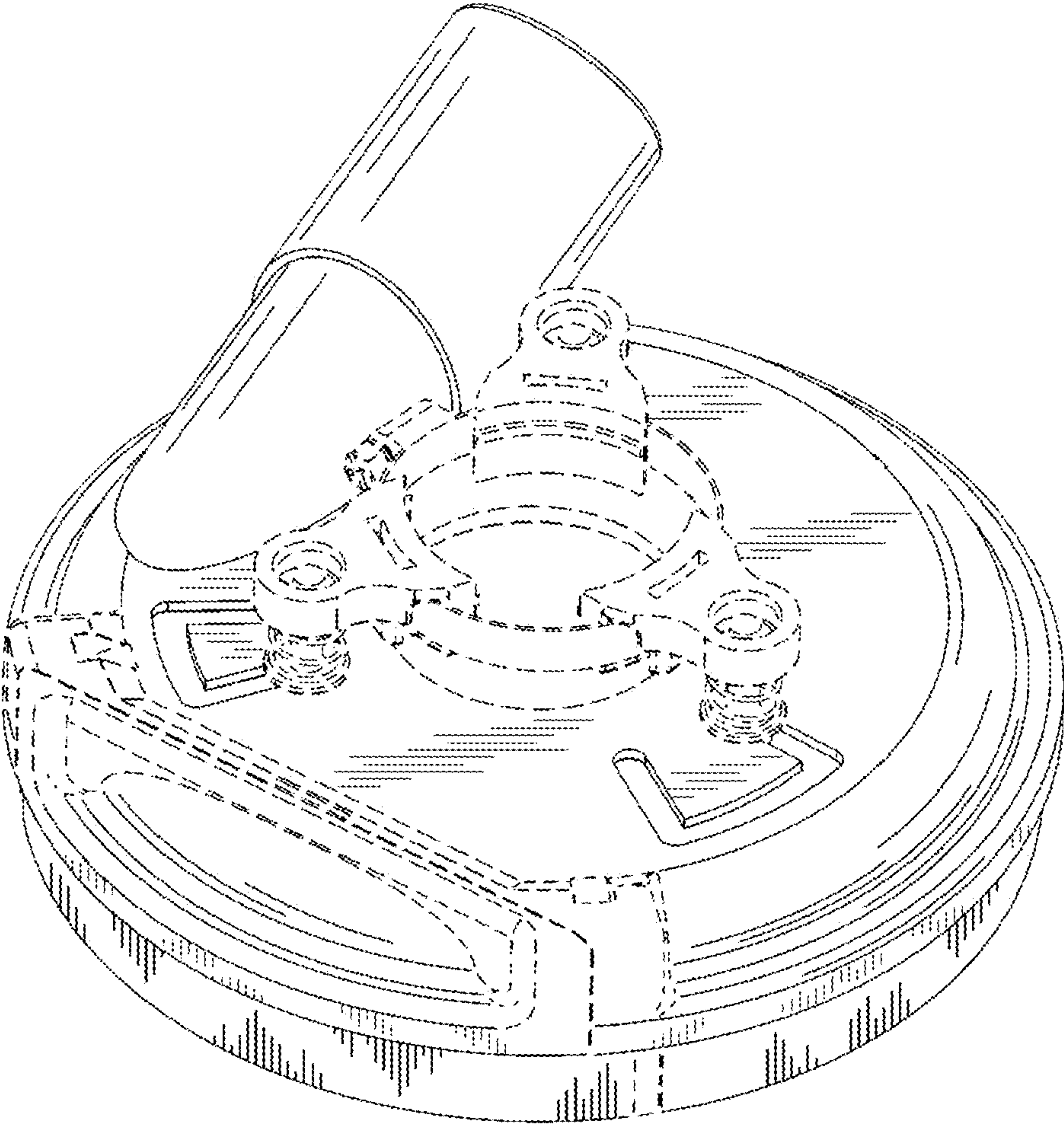


FIG 8

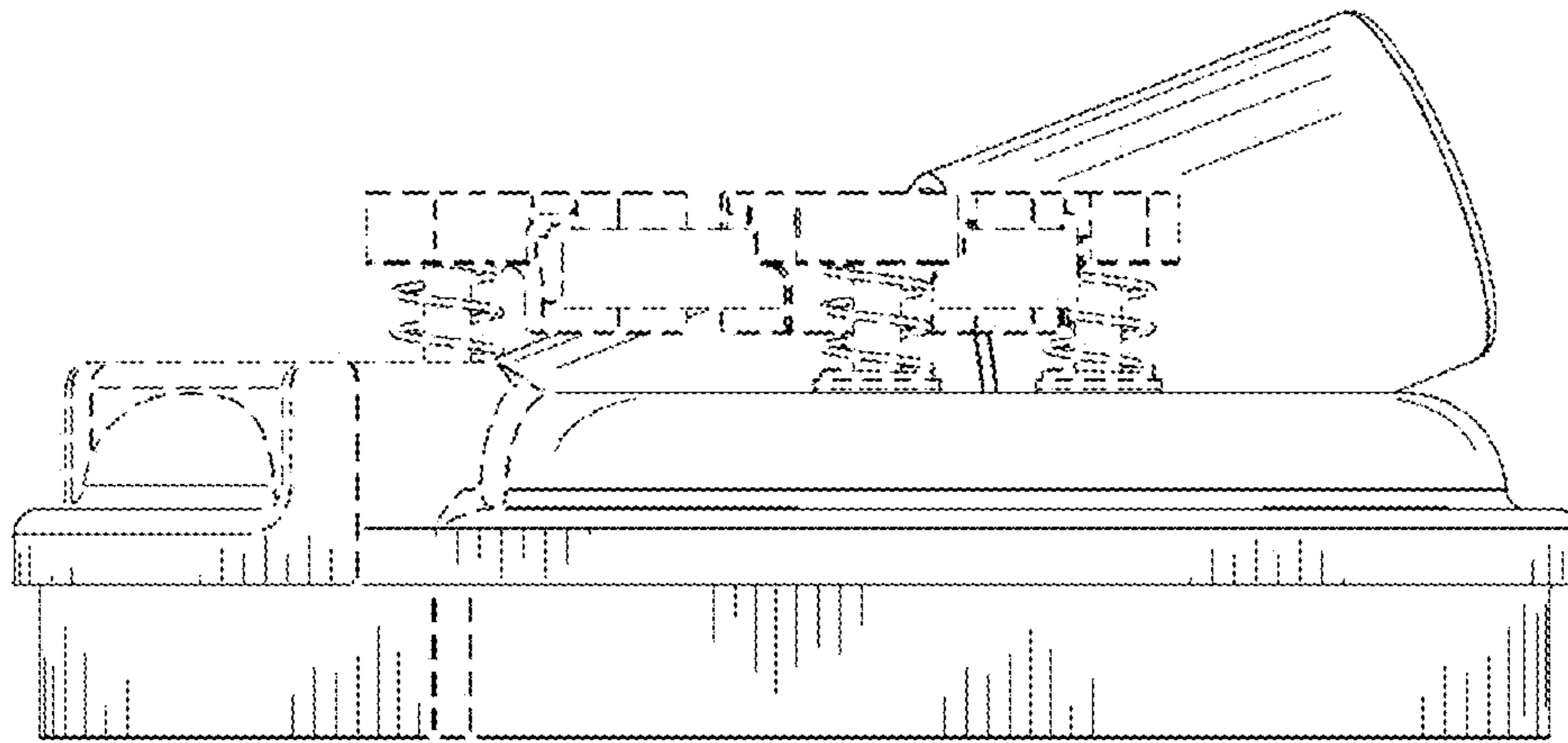


FIG 9

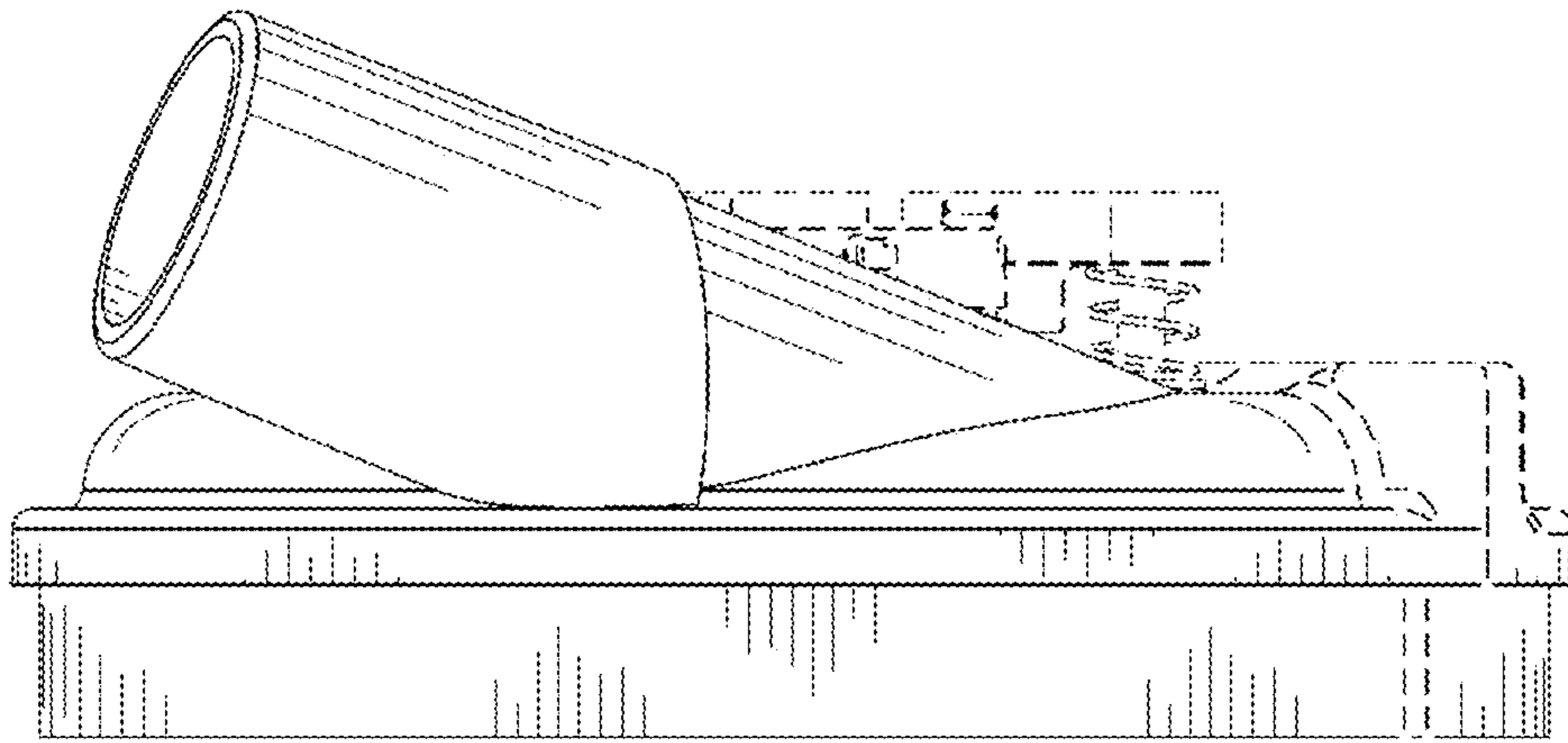


FIG 10

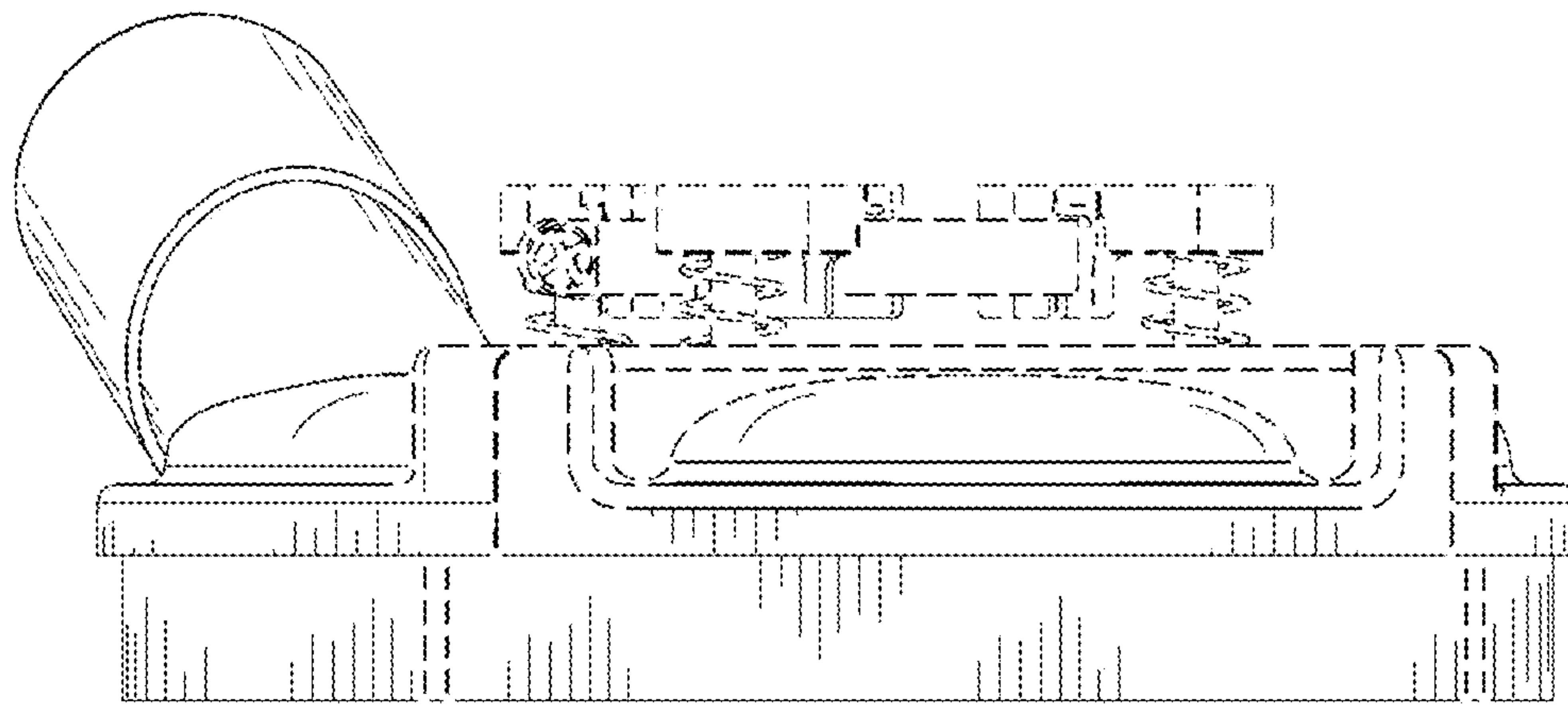


FIG 11

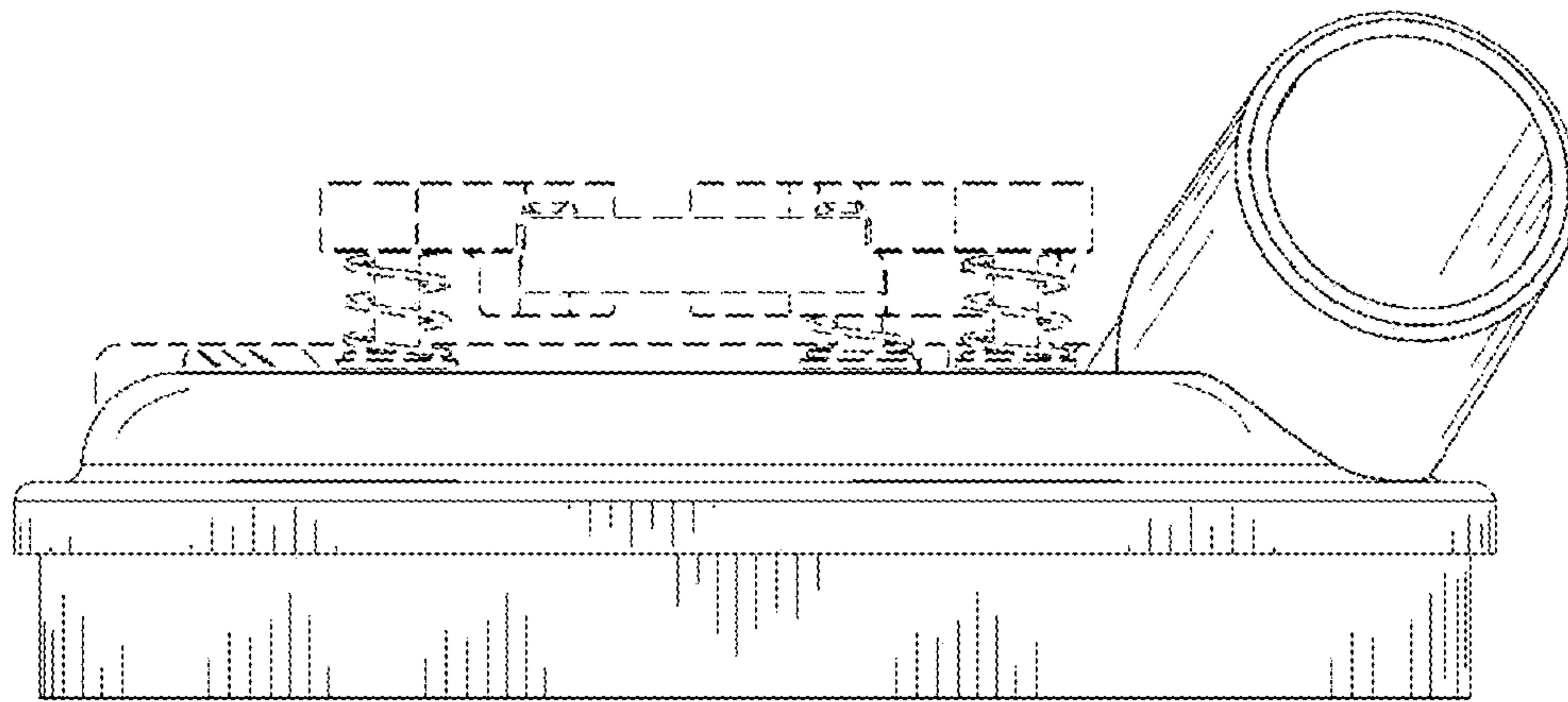


FIG 12

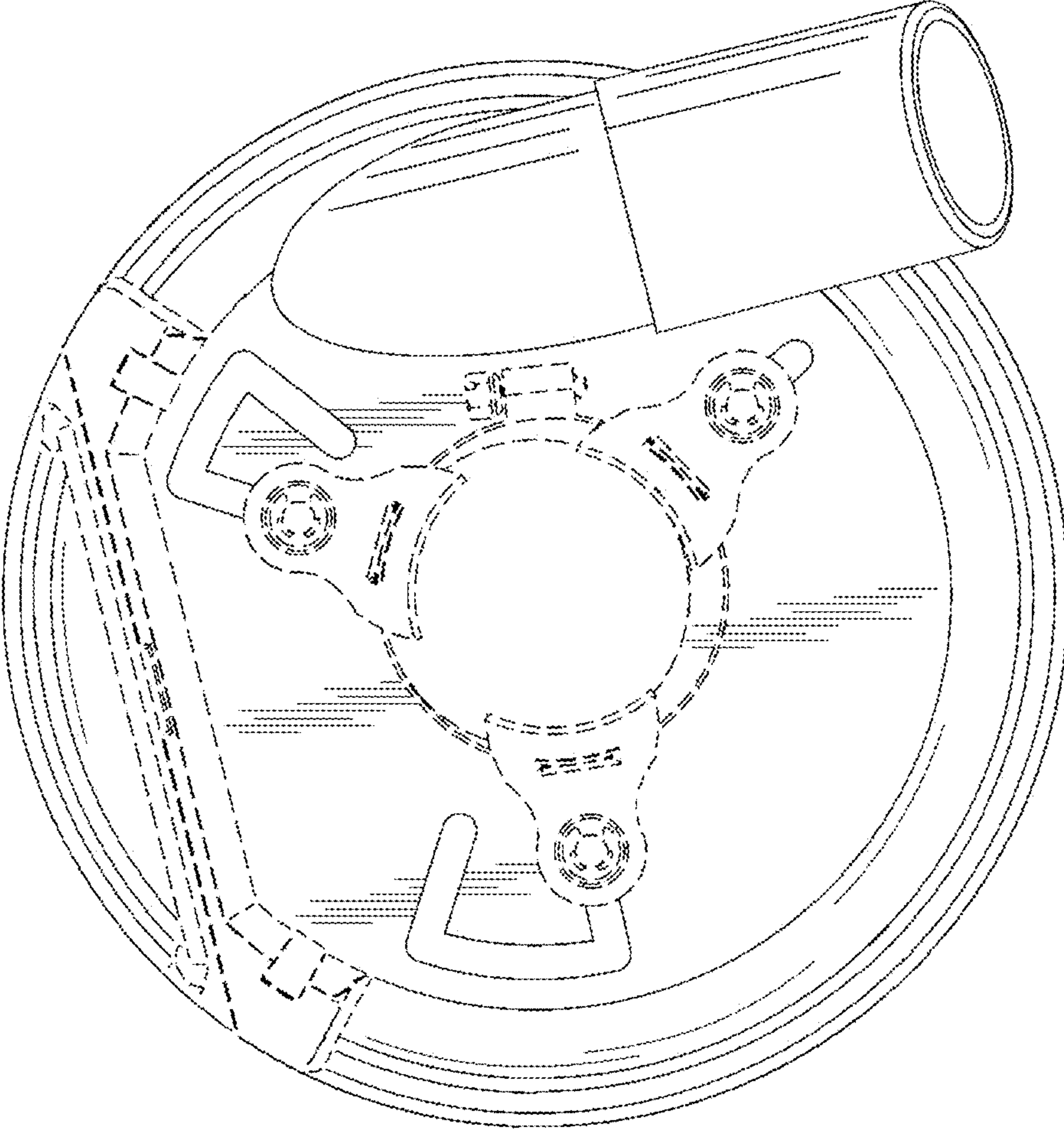


FIG 13

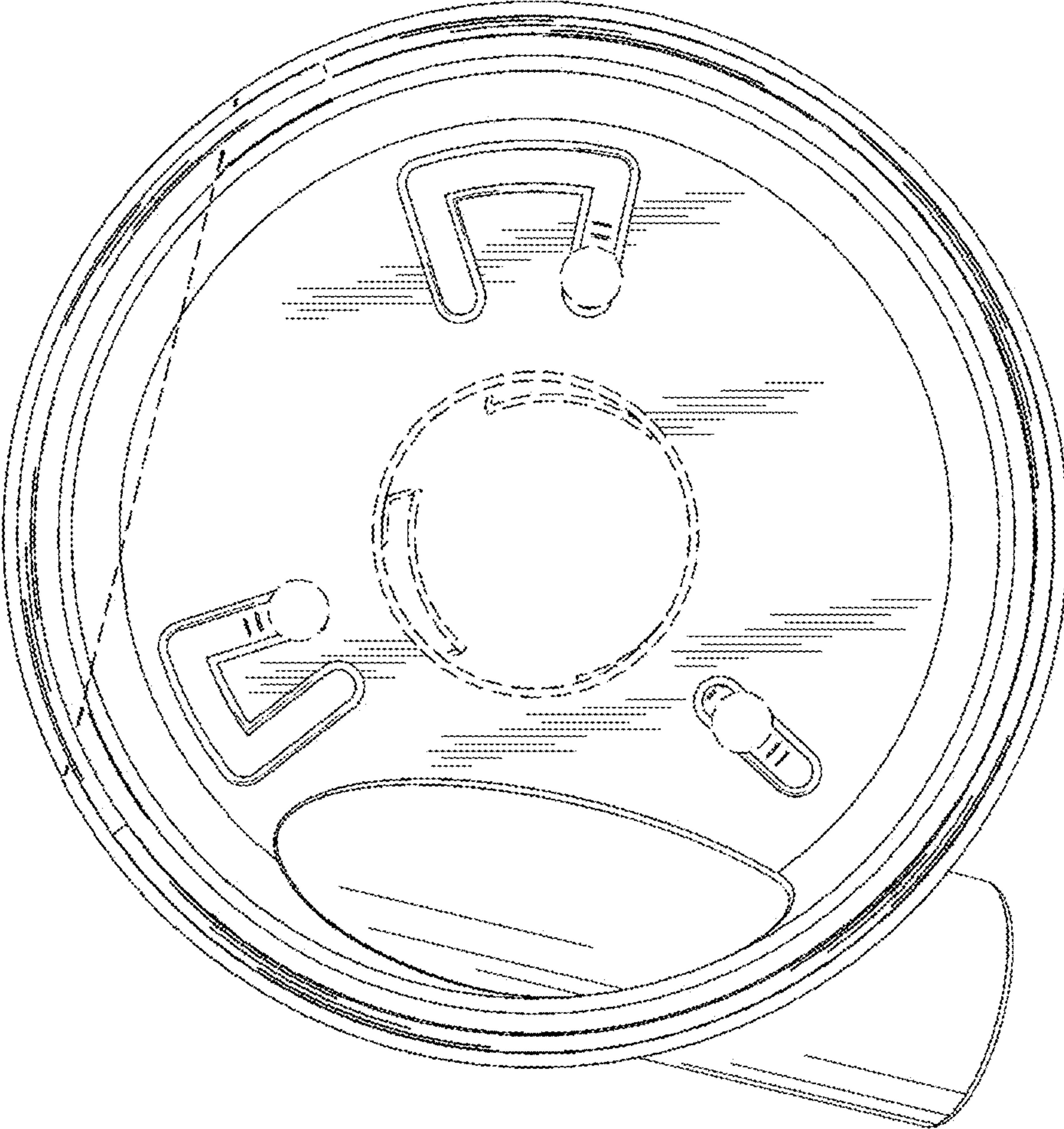


FIG 14