



US00D939267S

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

(10) **Patent No.:** **US D939,267 S**

(45) **Date of Patent:** **** Dec. 28, 2021**

(54) **FOOD GRINDER**

(71) Applicant: **WHIRLPOOL CORPORATION**,
Benton Harbor, MI (US)

(72) Inventors: **John W. McConnell**, St. Joseph, MI
(US); **Nicholas H. Schutte**, St. Joseph,
MI (US); **Brandon T. Mock**, St.
Joseph, MI (US)

(73) Assignee: **Whirlpool Corporation**, Benton
Harbor, MI (US)

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

(21) Appl. No.: **29/796,238**

(22) Filed: **Jun. 23, 2021**

Related U.S. Application Data

(63) Continuation of application No. 29/767,205, filed on
Jan. 21, 2021, now Pat. No. Des. 925,969, which is a
continuation of application No. 29/750,558, filed on
Sep. 15, 2020, now Pat. No. Des. 909,118, which is
a continuation of application No. 29/734,669, filed on
May 14, 2020, now Pat. No. Des. 899,179, which is
a continuation of application No. 29/673,407, filed on
Dec. 14, 2018, now Pat. No. Des. 885,822.

(51) **LOC (13) Cl.** **31-00**

(52) **U.S. Cl.**
USPC **D7/372**

(58) **Field of Classification Search**

USPC D7/372, 376-386, 665-666, 669,
D7/678-679, 693-694
CPC A01F 2015/07; A01F 2015/077; A01F
2015/0775; A23N 1/00; A23N 1/02; A47J
19/00; A47J 19/005; A47J 19/02; A47J
19/025; A47J 19/04; A47J 19/06; A47J
42/32; A47J 42/34; A47J 42/36; A47J
43/044; A47J 43/25; A47J 43/255; B01F
7/26; B01F 7/28; B01F 11/0082; B01F
13/04; B02C 13/00; B02C 13/02; B02C
13/10; B02C 18/06; B02C 18/26; B02C
18/2291; B02C 18/30; B02C 18/301;

B02C 18/302; B02C 18/304; B02C
18/305; B02C 25/00; B02C 2002/00;
B02C 2013/00; B02C 2013/14; B02C
2013/145; B02C 2013/18; B02C
2013/1807; B02C 2013/1857; B02C
2013/1864; B30B 9/00; B30B 9/16; B30B
9/18; B30B 9/20; B30B 9/26; B30B
9/205; B30B 9/207

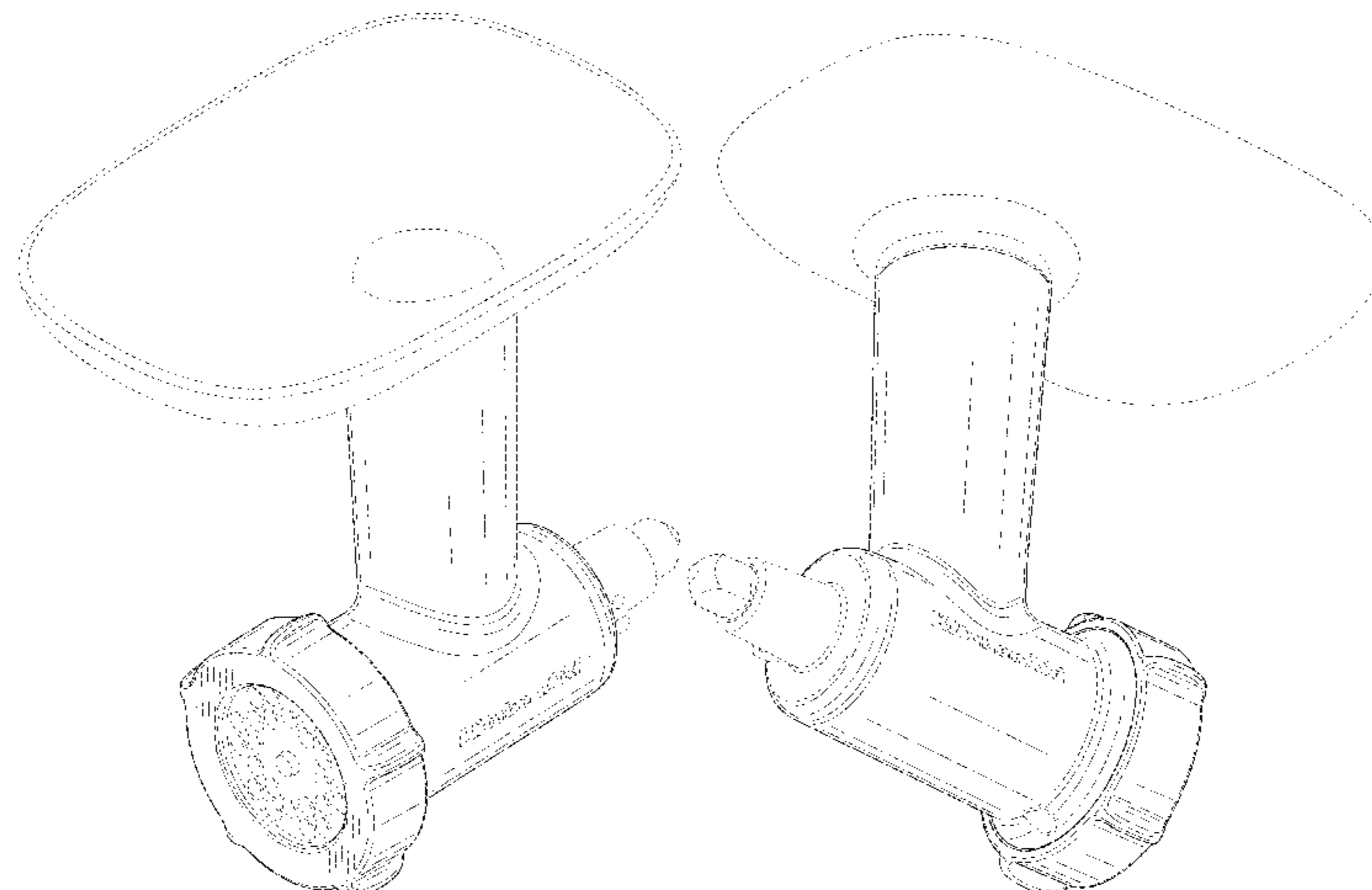
See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

62,184 A	2/1867	Coe	
100,280 A	3/1870	Gerhard	
243,035 A	6/1881	Geer	
256,214 A	4/1882	Heizmann	
256,800 A	4/1882	Holton	
273,418 A	3/1883	Whittemore	
310,196 A	1/1885	Goodell	
319,905 A	6/1885	Hudson	
360,527 A	4/1887	Hudson	
959,137 A	5/1910	Hinchliffe	
1,006,621 A	10/1911	Arnold	
1,008,555 A	11/1911	Mower	
1,826,242 A	10/1931	Dehuff	
1,956,492 A	4/1934	China	
2,001,036 A	5/1935	Prince	
2,056,843 A	10/1936	Erro	
2,125,859 A	8/1938	Liebelt	
2,146,710 A	2/1939	Bloomfield	
2,156,645 A	5/1939	Waller	
D118,270 S *	12/1939	Strauss	D7/372
2,284,155 A	5/1942	Landgraf	
2,305,288 A	12/1942	Cavalleri	
2,409,067 A	10/1946	Reed	
2,410,683 A	11/1946	Rios Y Marquez	
2,464,993 A	3/1949	Ross	
2,508,868 A	5/1950	Ross	
2,510,934 A	6/1950	Schildknecht	
2,585,255 A	2/1952	Kochner et al.	
2,600,281 A	6/1952	Stichelber	
2,664,002 A	12/1953	Anderson	
2,693,210 A	11/1954	Gustafson	
2,699,737 A	1/1955	Stichelber	
2,722,114 A	11/1955	Kochner	
2,759,830 A	8/1956	Touceda	
2,794,627 A	6/1957	Rodwick	
D181,157 S *	10/1957	Madl	D7/372
2,905,452 A	9/1959	Appleton	



9,827,336 B2 11/2017 Bonge-Hansen et al.
D811,158 S 2/2018 Yuan
D834,383 S 11/2018 Bazzicalupo et al.
D867,051 S 11/2019 McConnell et al.
D868,530 S 12/2019 Zhan
10,493,465 B2 12/2019 Moore et al.
D878,146 S 3/2020 McConnell et al.
D885,822 S 6/2020 McConnell et al.
10,695,772 B2 6/2020 Palmer et al.
D891,853 S 8/2020 McConnell et al.
D899,179 S 10/2020 McConnell et al.
D900,532 S 11/2020 Chen
D902,640 S 11/2020 McConnell et al.
D909,118 S 2/2021 McConnell et al.
D925,968 S * 7/2021 Lin D7/372
D925,969 S * 7/2021 McConnell D7/372
2001/0019778 A1 9/2001 Gardaz et al.
2001/0028909 A1 10/2001 Kashulines, Jr. et al.
2001/0032856 A1 10/2001 Casey
2002/0006464 A1 1/2002 Wefers
2002/0181322 A1 12/2002 Brunswick et al.
2004/0001387 A1 1/2004 Hallar et al.
2004/0145965 A1 7/2004 Chan et al.
2005/0058018 A1 3/2005 Hooper et al.
2005/0120888 A1 6/2005 Wang
2005/0257692 A1 11/2005 Marcato
2006/0044935 A1 3/2006 Benelli et al.
2006/0117961 A1 6/2006 Guo
2006/0243837 A1 11/2006 Wong
2006/0254429 A1 11/2006 Sinton
2008/0213447 A1 9/2008 Payen et al.
2008/0271609 A1 11/2008 Pahl et al.
2009/0064875 A1 3/2009 Trovinger
2009/0090254 A1 4/2009 Herren
2009/0120301 A1 5/2009 Severnak
2009/0310436 A1 12/2009 Huang et al.
2010/0012639 A1 1/2010 Merrell et al.
2010/0028514 A1 2/2010 Goderiaux et al.
2010/0147160 A1 6/2010 Oochi
2010/0196529 A1 8/2010 Marcato
2010/0308142 A1 12/2010 Krasznai et al.
2011/0017750 A1 1/2011 Fortkamp
2011/0063941 A1 3/2011 Seidler et al.
2011/0185917 A1 8/2011 Goderiaux et al.
2011/0214574 A1 9/2011 Chang
2011/0248108 A1 10/2011 Carriere
2012/0042786 A1 2/2012 Fedell
2012/0138716 A1 6/2012 Taguchi et al.
2012/0216687 A1 * 8/2012 Trovinger A23N 1/02
99/510
2012/0227592 A1 9/2012 Lim et al.
2013/0074700 A1 3/2013 Cheung
2013/0074707 A1 3/2013 Asbury et al.
2015/0000534 A1 1/2015 Hager et al.
2015/0098299 A1 4/2015 Sapire
2015/0201787 A1 7/2015 Holzbauer et al.
2015/0238042 A1 8/2015 Tonelli et al.
2016/0143484 A1 * 5/2016 Palmer B02C 18/301
241/82.1

2016/0332166 A1 11/2016 Chen
2017/0135526 A1 5/2017 Conti et al.
2018/0099289 A1 * 4/2018 Moore B02C 18/2291

FOREIGN PATENT DOCUMENTS

DE 202010012730 U1 12/2010
EP 0405636 B1 9/1993
EP 1230857 A1 8/2002
EP 1430824 A1 6/2004
EP 2269491 A1 1/2011
EP 2508110 A1 10/2012
FR 2447703 8/1980
FR 2939298 A1 6/2010
JP 2010029103 A 2/2010
WO 9415511 A1 7/1994
WO 2009016465 A2 2/2009
WO 2009141699 A2 11/2009

OTHER PUBLICATIONS

“Fulfilling Finishing Needs in the Auto Industry”; Electro Polish; Black Oxide, Aluminum Anodizing, Passivation; Dayton, Ohio; pp. 1-3; 2013.
Charles A. Grubbs; “Anodizing of Aluminum”; Consultant, Alpharetta, GA.; pp. 478-493; date unknown.

* cited by examiner

Primary Examiner — Ricky Pham
(74) Attorney, Agent, or Firm — Price Heneveld LLP

(57) CLAIM

The ornamental design for a food grinder, as shown and described.

DESCRIPTION

FIG. 1 is a top-front perspective view of a food grinder according to the design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a back elevation view thereof;
FIG. 4 is a right side elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a back-bottom perspective view thereof.
The portions of the article shown in even broken line form no part of the claimed design.
Dash-dot-dash broken lines adjacent un-shaded areas represent bounds of the claimed design and form no part of the claimed design themselves.

1 Claim, 8 Drawing Sheets

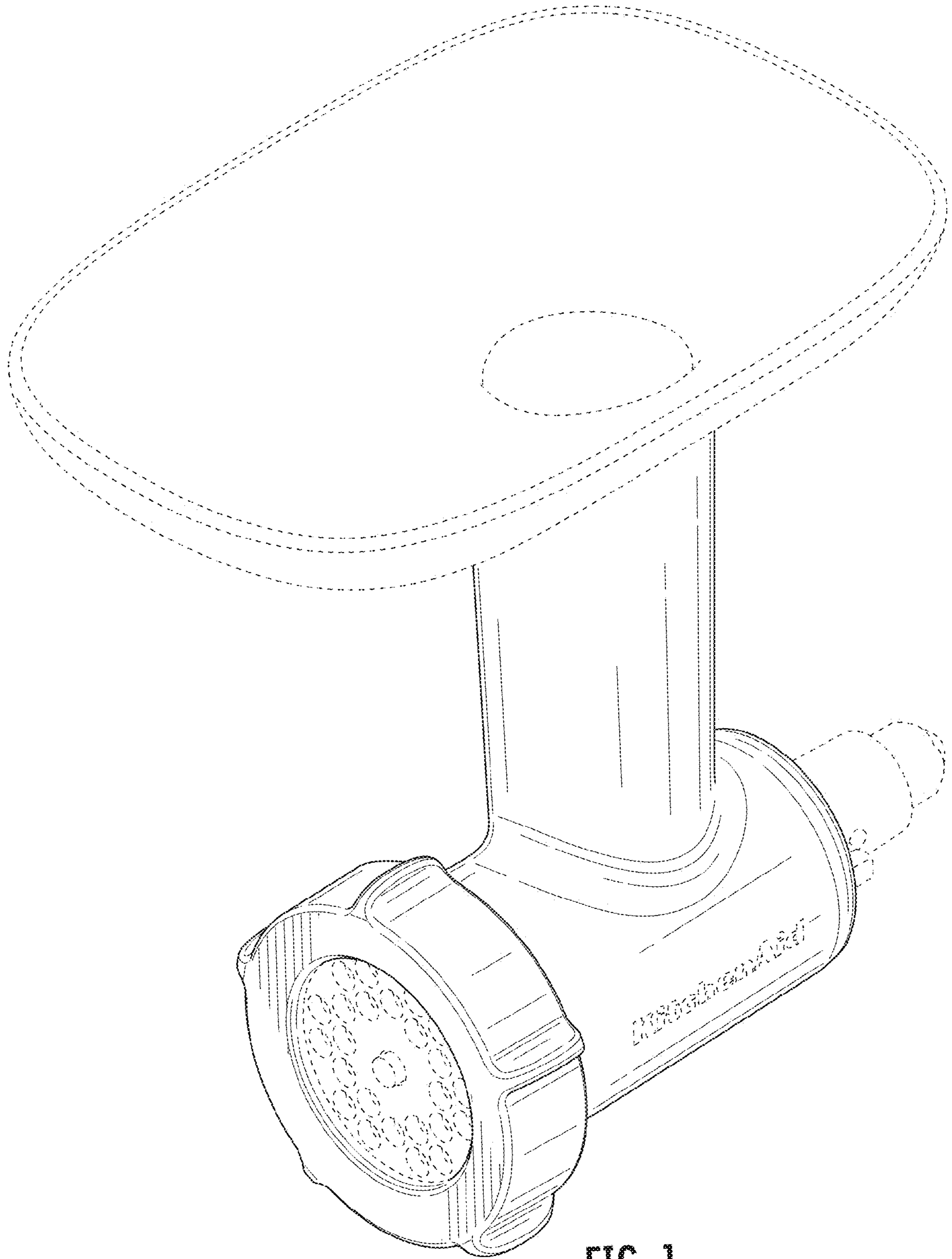


FIG. 1

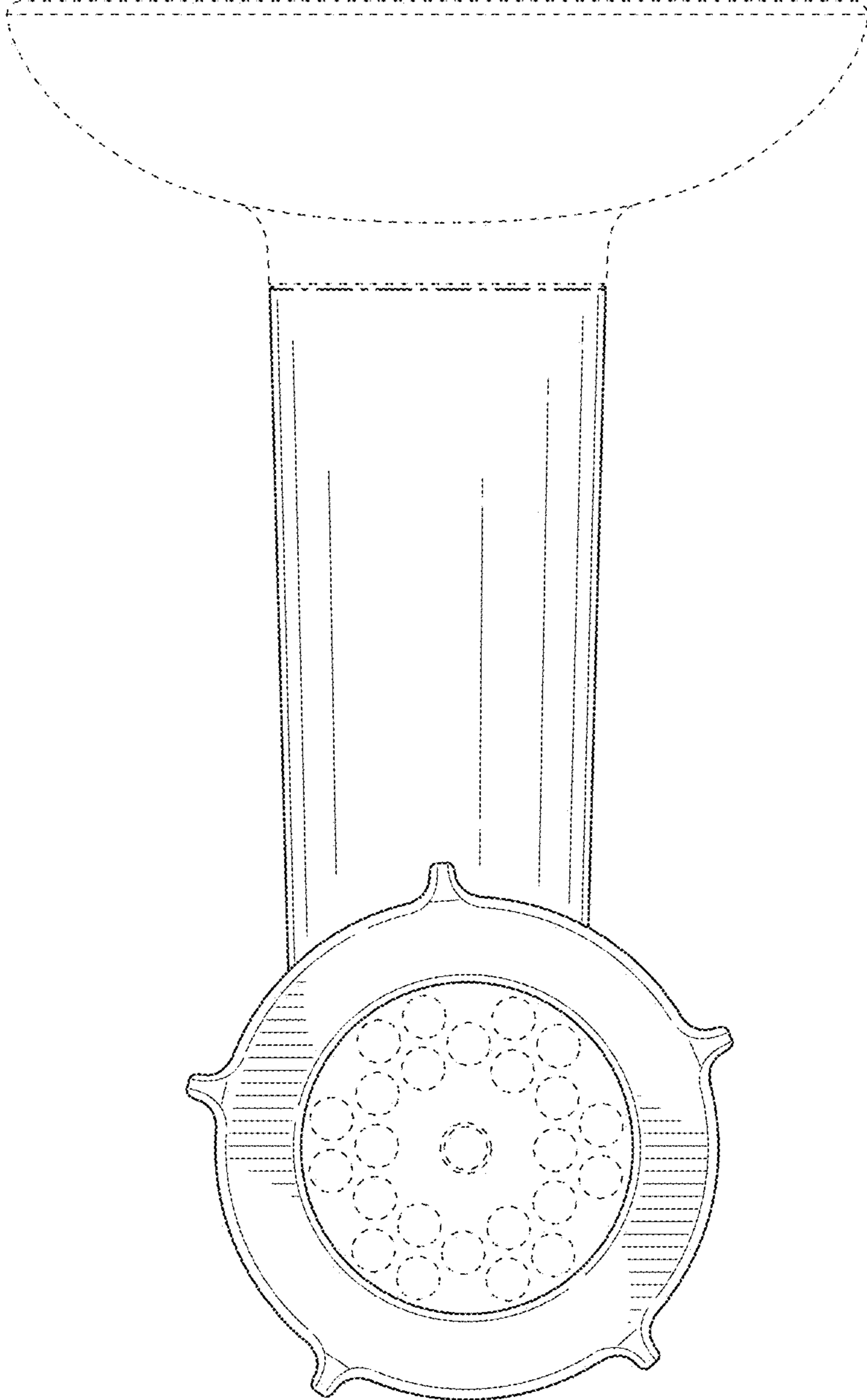


FIG. 2

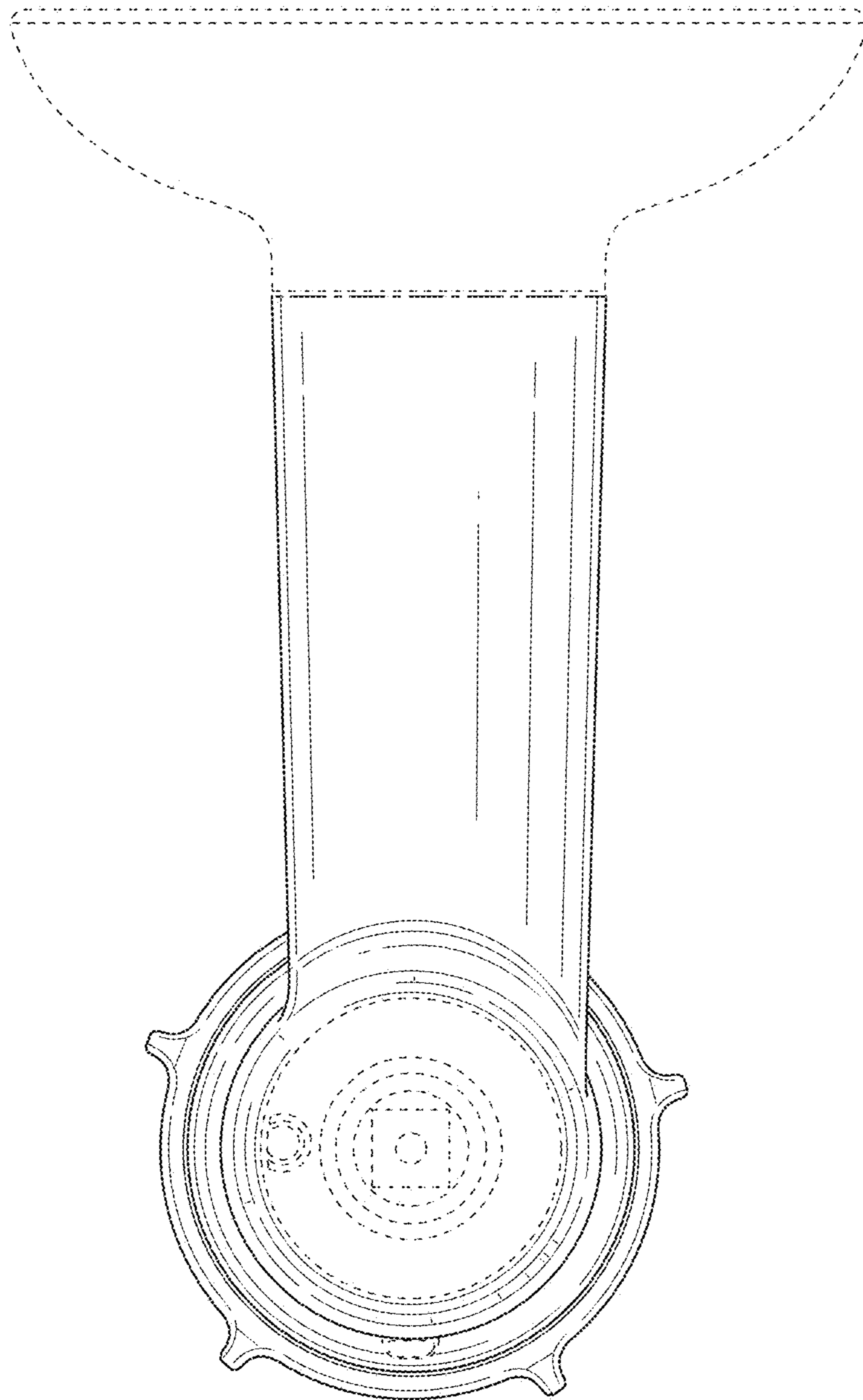


FIG. 3

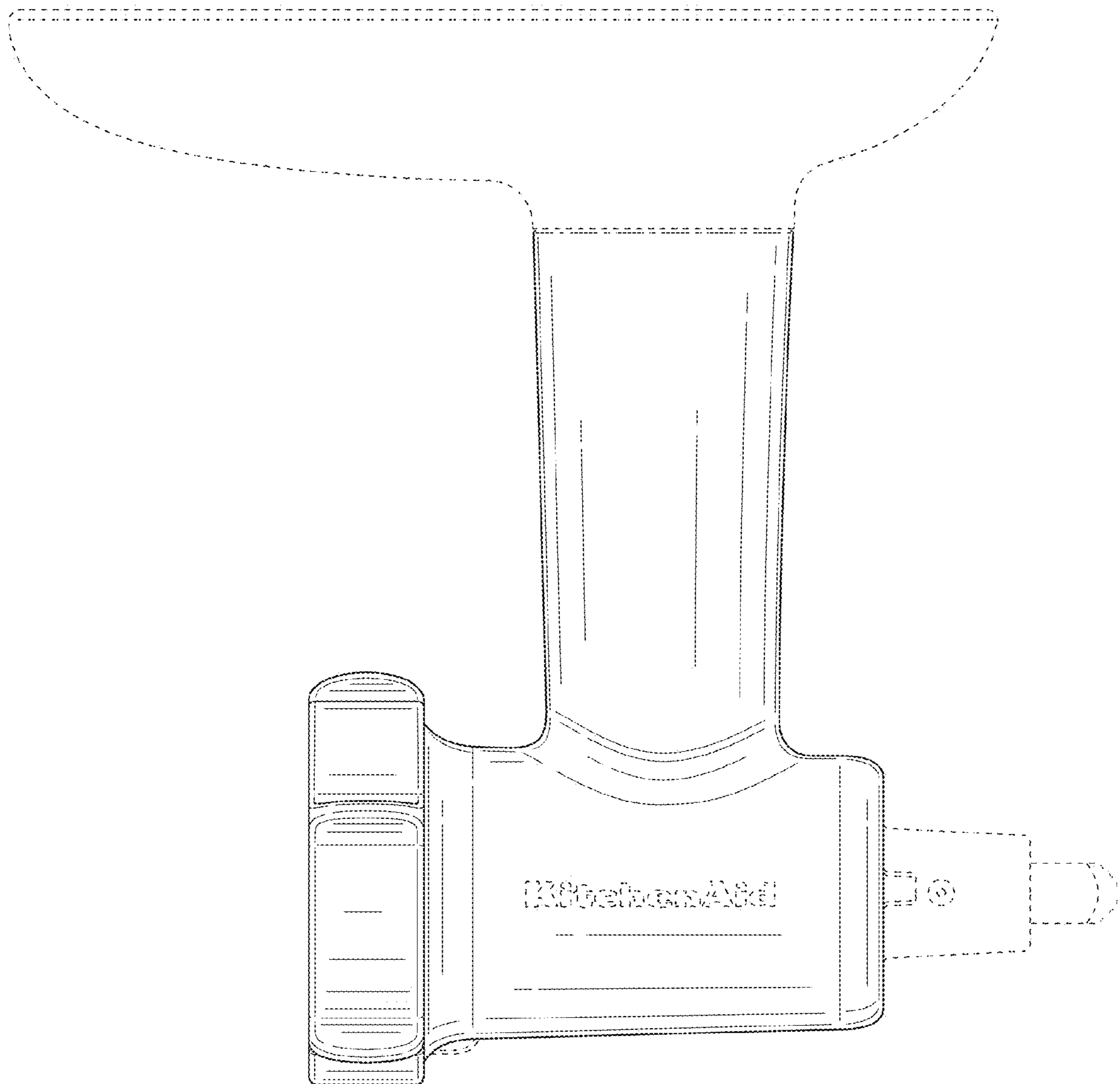


FIG. 4

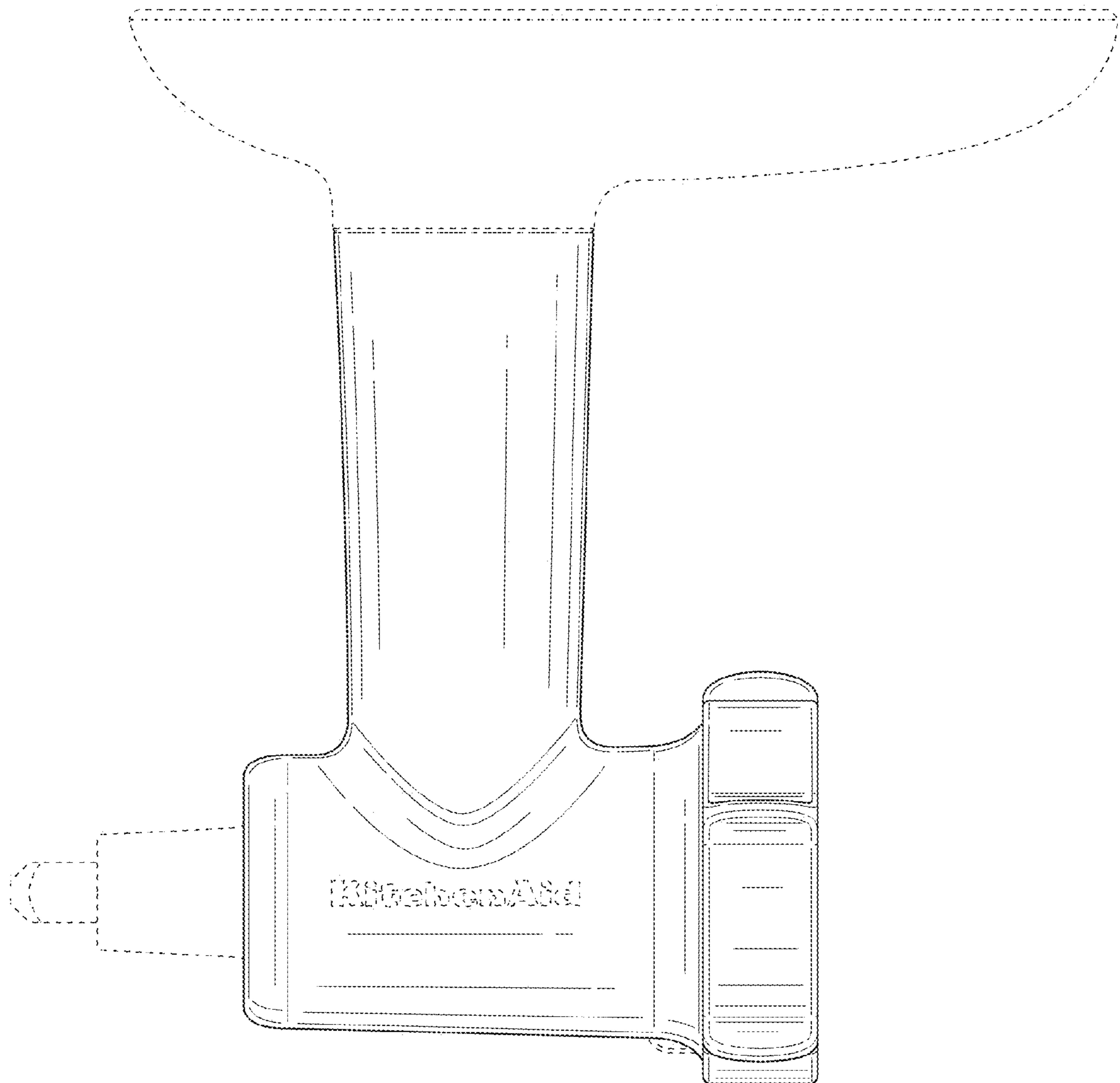


FIG. 5

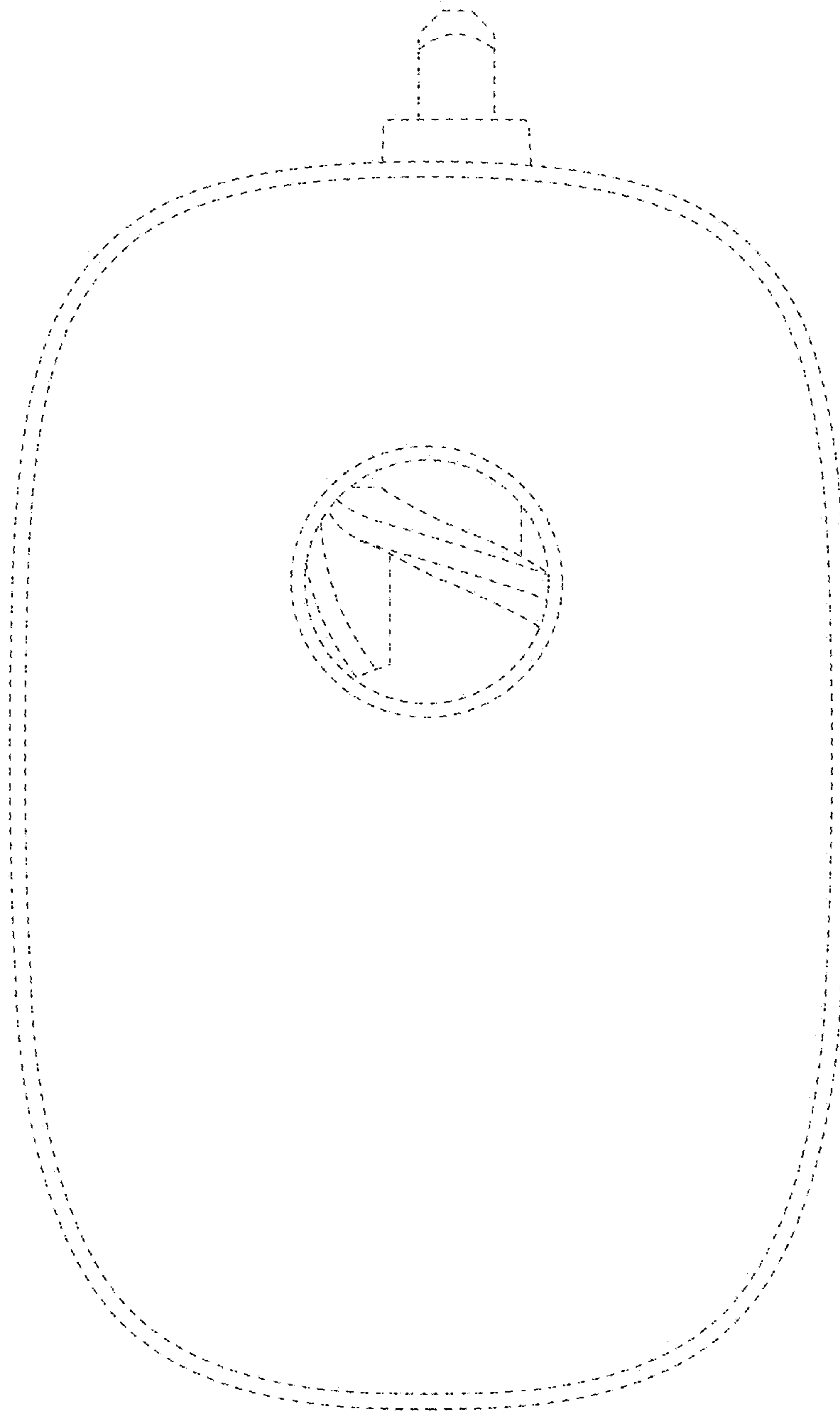


FIG. 6

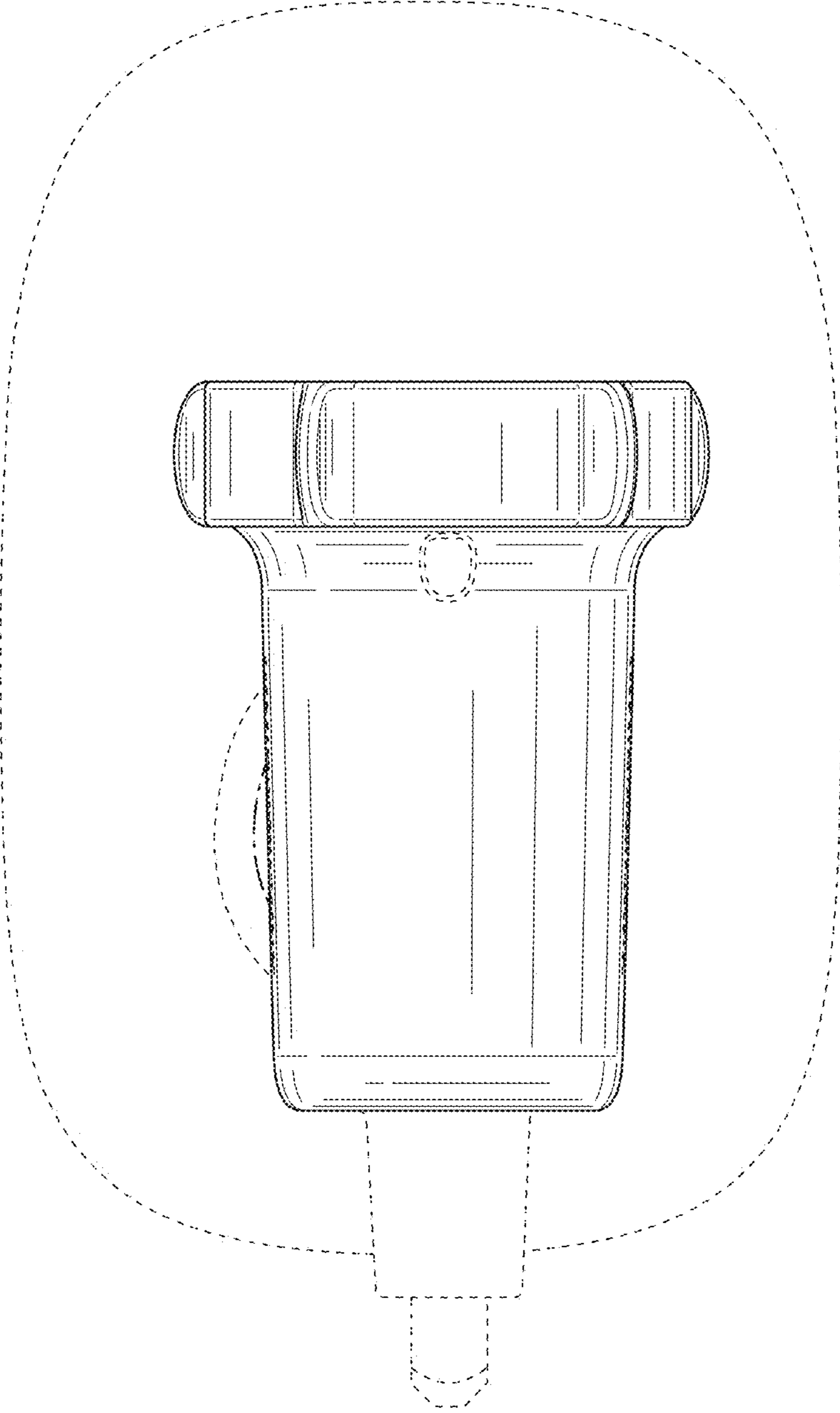


FIG. 7

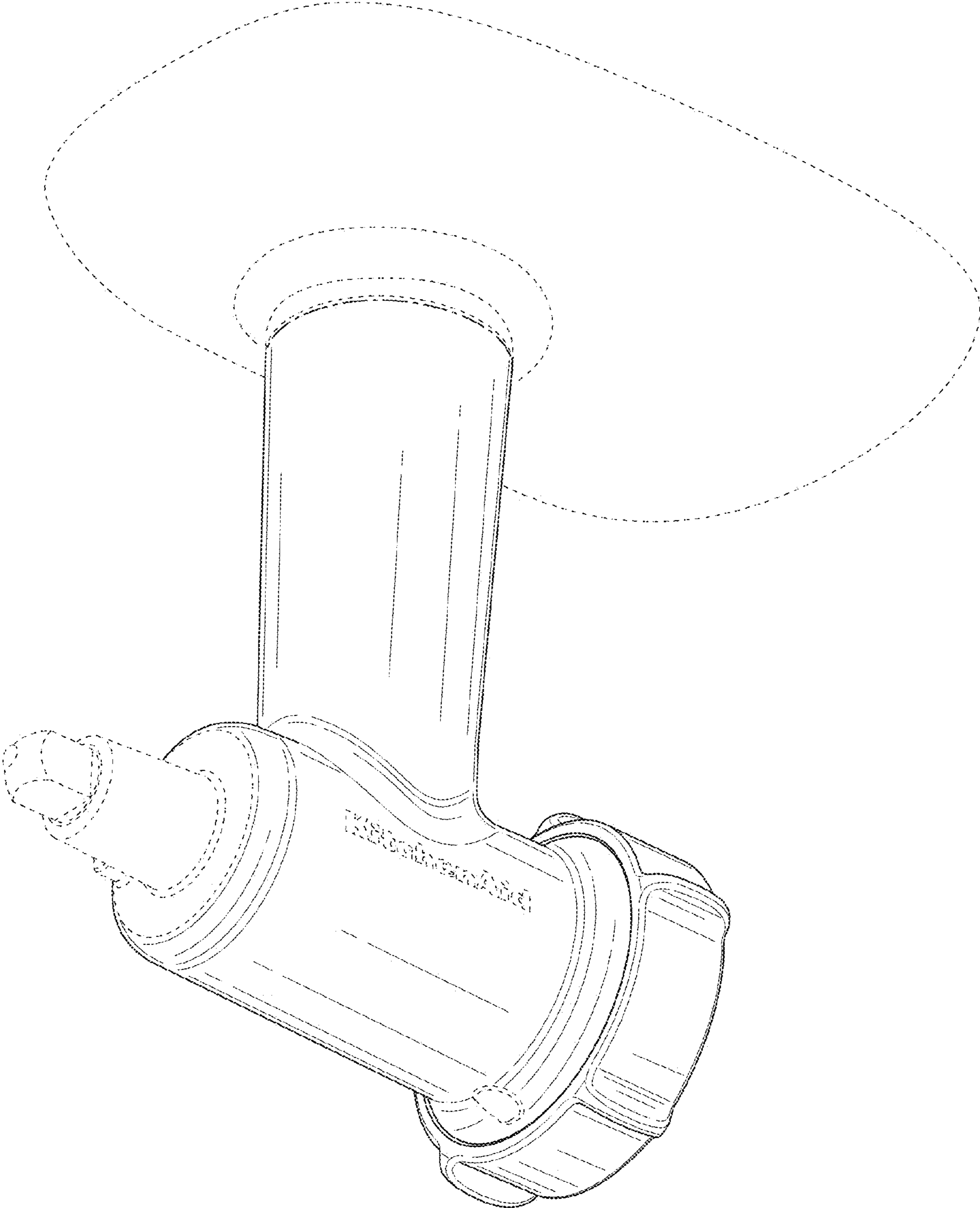


FIG. 8