US00D902640S

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

(10) **Patent No.: US D902,640 S**
(45) **Date of Patent: ** Nov. 24, 2020**

(54) **GRINDER ATTACHMENT FOR A STAND MIXER**

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

(72) Inventors: **John W. McConnell**, St. Joseph, MI (US); **Nicholas Schutte**, St. Joseph, MI (US); **Anne Wessel**, St. Joseph, MI (US)

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

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

(21) Appl. No.: **29/738,407**

(22) Filed: **Jun. 17, 2020**

Related U.S. Application Data

(60) Continuation of application No. 29/723,667, filed on Feb. 10, 2020, now Pat. No. Des. 891,853, which is
(Continued)

(51) **LOC (12) 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
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

62,184 A 2/1867 Coe
100,280 A 3/1870 Gerhard
(Continued)

FOREIGN PATENT DOCUMENTS

DE 202010012730 U1 12/2010
EP 0405636 B1 9/1993
(Continued)

OTHER PUBLICATIONS

"Fulfilling Finishing Needs in the Auto Industry"; Electro Polish; Black Oxide, Aluminum Anodizing, Passivation; Dayton, Ohio; pp. 1-3; 2013.
(Continued)

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

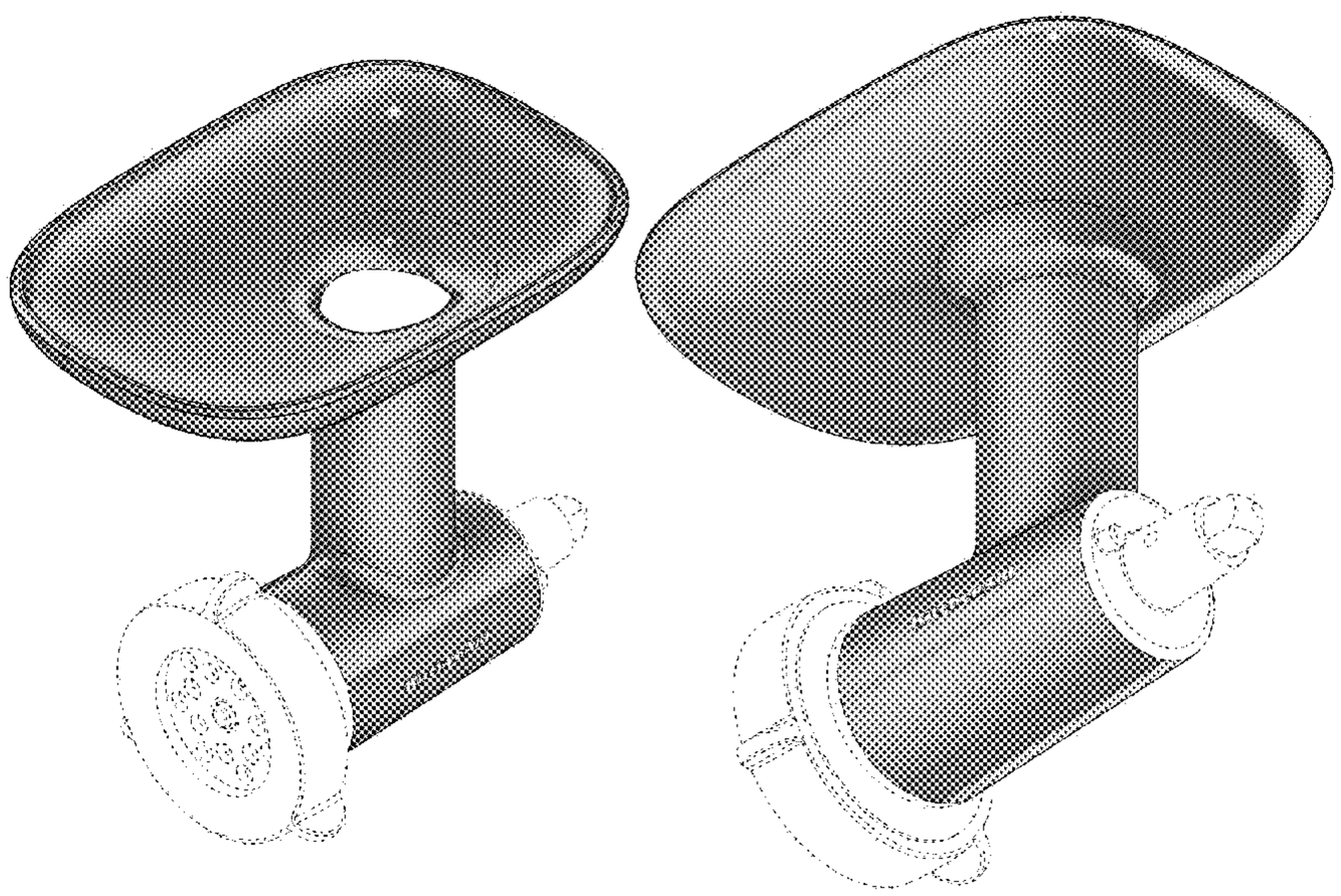
(57) **CLAIM**

The ornamental design for a grinder attachment for a stand mixer, as shown and described.

DESCRIPTION

The file of this patent contains at least one drawing/photograph executed in color. Copies of this patent with color drawing(s)/photograph(s) will be provided by the Office upon request and payment of the necessary fee.
FIG. **1** is a top-front perspective view of a grinder attachment for a stand mixer according to our design;
FIG. **2** is a bottom-back perspective view thereof;
FIG. **3** is a front elevation view thereof;
FIG. **4** is a back elevation view thereof;
FIG. **5** is a right side elevation view thereof;
FIG. **6** is a left side elevation view thereof;
FIG. **7** is a top plan view thereof; and,
FIG. **8** is a bottom plan view thereof.
Broken lines show portions of the article that form no part of the claimed design. Dash-dot lines represent bounds of the claimed design and form no part of the claimed design. The drawings are shows shaded with color depicting a metallic material with a reflective appearance, the particular color forming no part of the claim.

1 Claim, 8 Drawing Sheets
(8 of 8 Drawing Sheet(s) Filed in Color)



Related U.S. Application Data

a continuation of application No. 29/705,144, filed on Sep. 10, 2019, now Pat. No. Des. 878,146, which is a division of application No. 29/621,122, filed on Oct. 4, 2017, now Pat. No. Des. 867,051.

(58) **Field of Classification Search**

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 19/04; 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 18/30; B02C 18/36; 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

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	Sticelber	
2,664,002	A		12/1953	Anderson	
D173,029	S		9/1954	Green et al.	
2,693,210	A		11/1954	Gustafson	
2,699,737	A		1/1955	Sticelber	
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	
2,905,452	A		9/1959	Appleton	
D186,728	S		11/1959	Talge	
2,946,299	A		7/1960	Clifford	
2,965,145	A	*	12/1960	Gutfreund	B02C 18/302 241/285.1
D192,704	S		5/1962	Giunta	
3,180,627	A		4/1965	Belonga	
3,211,202	A		10/1965	Mason	
3,220,450	A		11/1965	Aronson, II et al.	
3,268,342	A		8/1966	Yatuni	
3,357,469	A		12/1967	Pease et al.	
3,440,150	A		4/1969	Kramer et al.	
RE26,684	E		10/1969	Mason	
D222,209	S	*	10/1971	Dykes	D7/372
3,635,147	A		1/1972	Lee	
3,838,023	A		9/1974	Friedemann	
D233,123	S		10/1974	Rigamonti	
3,883,283	A		5/1975	Herrera	
D236,283	S	*	8/1975	McCue	D7/372
D236,425	S		8/1975	McCue	
3,952,621	A		4/1976	Chambos	
3,956,517	A		5/1976	Curry et al.	
3,960,369	A		6/1976	Sommer	
4,078,481	A		3/1978	Wunderlin	
4,083,756	A		4/1978	Tajkowski	
4,213,569	A		7/1980	Amiot	
4,216,917	A		8/1980	Clare et al.	
4,234,605	A		11/1980	Takeuchi	
4,277,181	A		7/1981	Stahly et al.	
D260,351	S		8/1981	Shun	
4,332,539	A		6/1982	Zani	
4,337,000	A		6/1982	Lehmann	
4,348,166	A		9/1982	Fowler	
4,390,133	A		6/1983	Wanat	
4,429,624	A		2/1984	Linn	
D276,202	S		11/1984	Shun	
4,487,509	A		12/1984	Boyce	
4,512,522	A		4/1985	Williams	
4,569,851	A		2/1986	Schultz	
4,581,990	A		4/1986	Matsumoto	
4,619,192	A		10/1986	Cycyk et al.	
4,628,808	A		12/1986	Simon	
4,649,810	A		3/1987	Wong	
4,693,610	A		9/1987	Weiss	
4,704,959	A		11/1987	Scallen	
4,714,203	A		12/1987	Williams	
4,770,619	A		9/1988	Rijkaart	
D300,400	S		3/1989	Kelly et al.	
4,817,512	A		4/1989	Vangen	
4,820,054	A		4/1989	Wong	
4,854,717	A		8/1989	Crane et al.	
4,878,627	A		11/1989	Otto	
4,942,807	A		7/1990	Wong	
4,959,517	A		9/1990	Jump et al.	
4,984,512	A		1/1991	Takahashi et al.	
5,022,315	A		6/1991	Bertram et al.	
5,054,383	A		10/1991	Cho	
5,091,046	A		2/1992	Hunter et al.	
5,272,961	A		12/1993	Campbell et al.	
5,289,760	A		3/1994	Barradas	
5,363,746	A		11/1994	Gordon	
5,396,836	A	*	3/1995	Kim	B30B 9/16 99/510
5,402,710	A		4/1995	Chen	
D362,597	S		9/1995	Kim	
5,460,506	A		10/1995	Price, IV et al.	
5,463,937	A		11/1995	Belongia et al.	
5,469,782	A		11/1995	Wong	
5,470,599	A		11/1995	Ruhe	
5,486,100	A		1/1996	Hsu	
5,486,665	A		1/1996	Le Rouzic	
5,493,955	A		2/1996	Belongia et al.	
5,513,557	A		5/1996	Chiang	
D370,383	S		6/1996	Brefka	
5,558,011	A		9/1996	Heim	
D376,736	S		12/1996	Kim	
5,690,022	A		11/1997	Chai	
5,758,963	A		6/1998	Xie et al.	
5,770,239	A		6/1998	Ancona	
5,771,784	A		6/1998	Sham	
5,786,016	A		7/1998	Campbell et al.	
5,816,136	A		10/1998	Stallings	
5,823,675	A		10/1998	Myerly	
5,839,356	A		11/1998	Dornbush et al.	
RE36,155	E		3/1999	Scallen	
5,878,643	A		3/1999	Hwang	
5,919,493	A		7/1999	Sheppard et al.	
5,935,656	A		8/1999	Koemer et al.	

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,950,528	A		9/1999	Wang
5,957,045	A		9/1999	He et al.
D414,983	S		10/1999	Wong
6,024,554	A		2/2000	Lawrence
6,035,766	A		3/2000	Schirmer
6,053,098	A		4/2000	Yamamoto
6,113,966	A		9/2000	Belongia et al.
6,148,169	A		11/2000	Tsukamoto
6,163,095	A		12/2000	Shams et al.
6,188,046	B1		2/2001	Barrow
D444,669	S		7/2001	Prot
6,259,068	B1		7/2001	Barrow
6,270,826	B1		8/2001	Kashulines, Jr. et al.
6,297,479	B1		10/2001	Wefers
6,321,641	B1		11/2001	Wang
6,373,031	B1		4/2002	Barrow
6,442,866	B2		9/2002	Wefers
D475,253	S		6/2003	Yip
6,609,455	B2		8/2003	Fouquet
D484,738	S		1/2004	Wong
6,698,338	B2		3/2004	Ancona et al.
6,743,007	B2		6/2004	Backus et al.
D495,921	S		9/2004	Lallemand
6,805,312	B2		10/2004	Capp
6,854,383	B2		2/2005	Wang
6,948,609	B2		9/2005	Finger et al.
7,029,714	B2		4/2006	Mihalos et al.
7,032,491	B2		4/2006	Fischer
7,063,009	B2		6/2006	Lin
D526,539	S	*	8/2006	Yip D7/665
7,083,040	B2		8/2006	Finger et al.
D531,850	S		11/2006	Wong
7,169,450	B2		1/2007	Bunick
7,207,510	B2		4/2007	Wong
7,238,017	B2		7/2007	Marcato
D551,493	S		9/2007	Marcato
D553,427	S		10/2007	Ball
7,314,308	B2		1/2008	Fallowes et al.
7,318,666	B1		1/2008	Lin
7,461,589	B2		12/2008	Sinton
D601,391	S	*	10/2009	Chiang D7/665
D610,396	S		2/2010	Chiang
7,775,705	B2		8/2010	Kozlowski et al.
7,827,906	B1		11/2010	Carter
7,887,314	B2		2/2011	Ruhe et al.
D643,265	S	*	8/2011	Kim D7/665
7,993,694	B2		8/2011	Goderiaux et al.
8,122,821	B2		2/2012	Sands
8,162,653	B2		4/2012	Marcato
D660,660	S	*	5/2012	Kim D7/666
8,210,737	B2		7/2012	Wong
D669,324	S		10/2012	Bodum
D670,138	S	*	11/2012	Hu D7/665
D677,975	S		3/2013	Jin et al.
8,438,971	B1		5/2013	Thurley
D683,577	S		6/2013	Cohen
D684,827	S		6/2013	Kim
D698,210	S		1/2014	Lavy et al.
D712,696	S		9/2014	Huber et al.
D715,094	S		10/2014	Cornu et al.
D718,094	S	*	11/2014	Yan D7/665
D721,548	S		1/2015	Jin
D721,549	S		1/2015	Li
D725,440	S		3/2015	Kim
D747,916	S		1/2016	Wong
9,500,235	B2		11/2016	Kanning
D775,491	S		1/2017	Brinkley et al.
D790,918	S		7/2017	Benoit et al.
9,775,467	B2		10/2017	Sapire
D811,158	S		2/2018	Yuan
D867,051	S		11/2019	McConnell et al.
D868,530	S		12/2019	Zhan
D885,822	S	*	6/2020	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
2006/0254429	A1		11/2006	Sinton
2008/0213447	A1		9/2008	Payen et al.
2008/0271609	A1		11/2008	Pahl et al.
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.
2012/0227592	A1		9/2012	Lim et al.
2013/0074700	A1		3/2013	Cheung
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 18/36 241/82.1
2016/0332166	A1		11/2016	Chen
2018/0099289	A1		4/2018	Moore et al.

FOREIGN PATENT DOCUMENTS

EP	1230857	A1	8/2002
EP	1430824	A1	6/2004
EP	2269491	A1	1/2011
EP	2508110	A1	10/2012
FI	943990	A	8/1994
FR	2447703		8/1980
FR	2939298	A1	6/2010
JP	6211066	A	1/1987
JP	2010029103	A	2/2010
WO	9415511	A1	7/1994
WO	2009016465	A2	2/2009
WO	2009141699	A2	11/2009

OTHER PUBLICATIONS

Charles A. Grubbs; "Anodizing of Aluminum"; Consultant, Alpharetta, GA.; pp. 478-493; date unknown.

* cited by examiner

FIG. 1

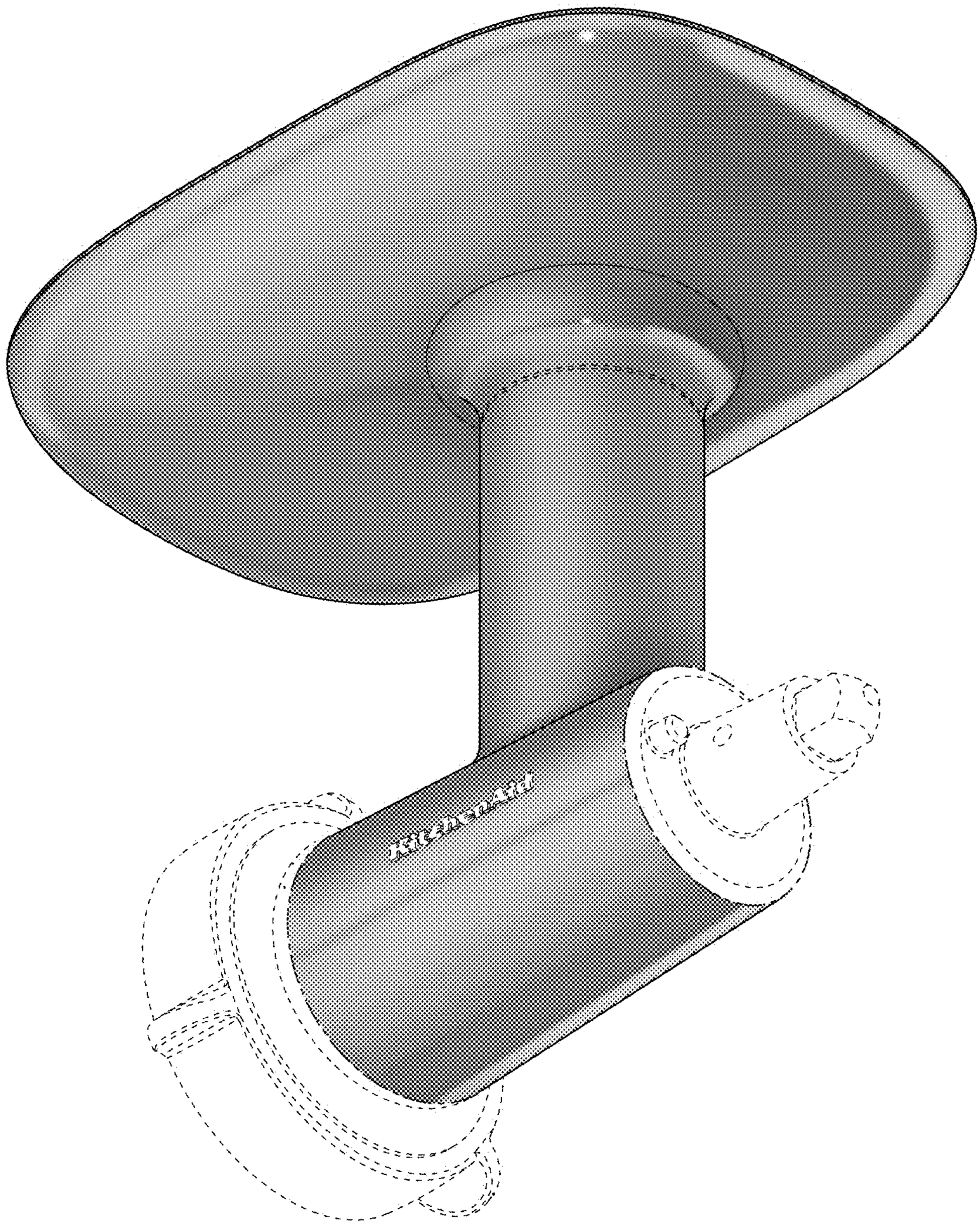


FIG. 2

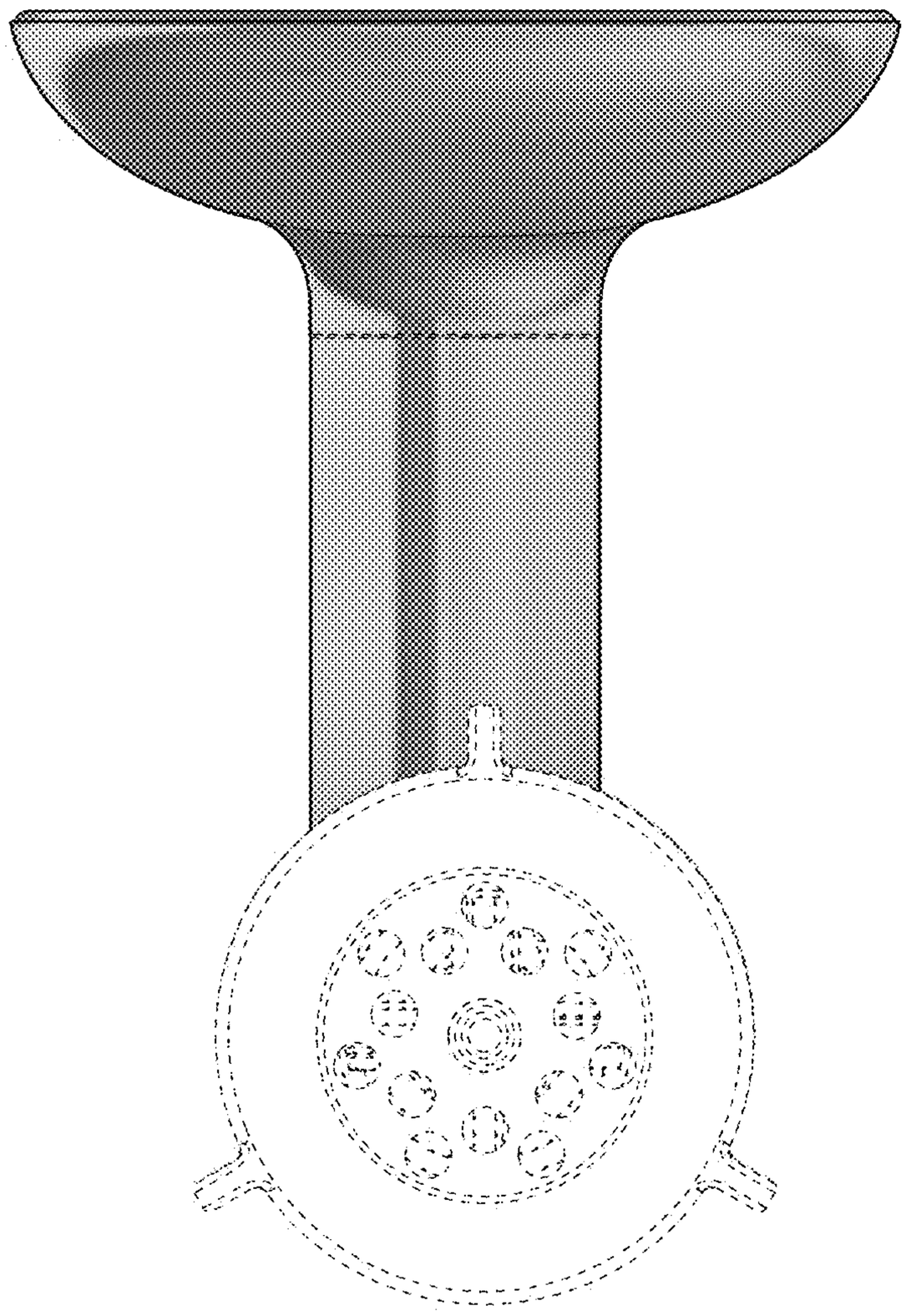


FIG. 3

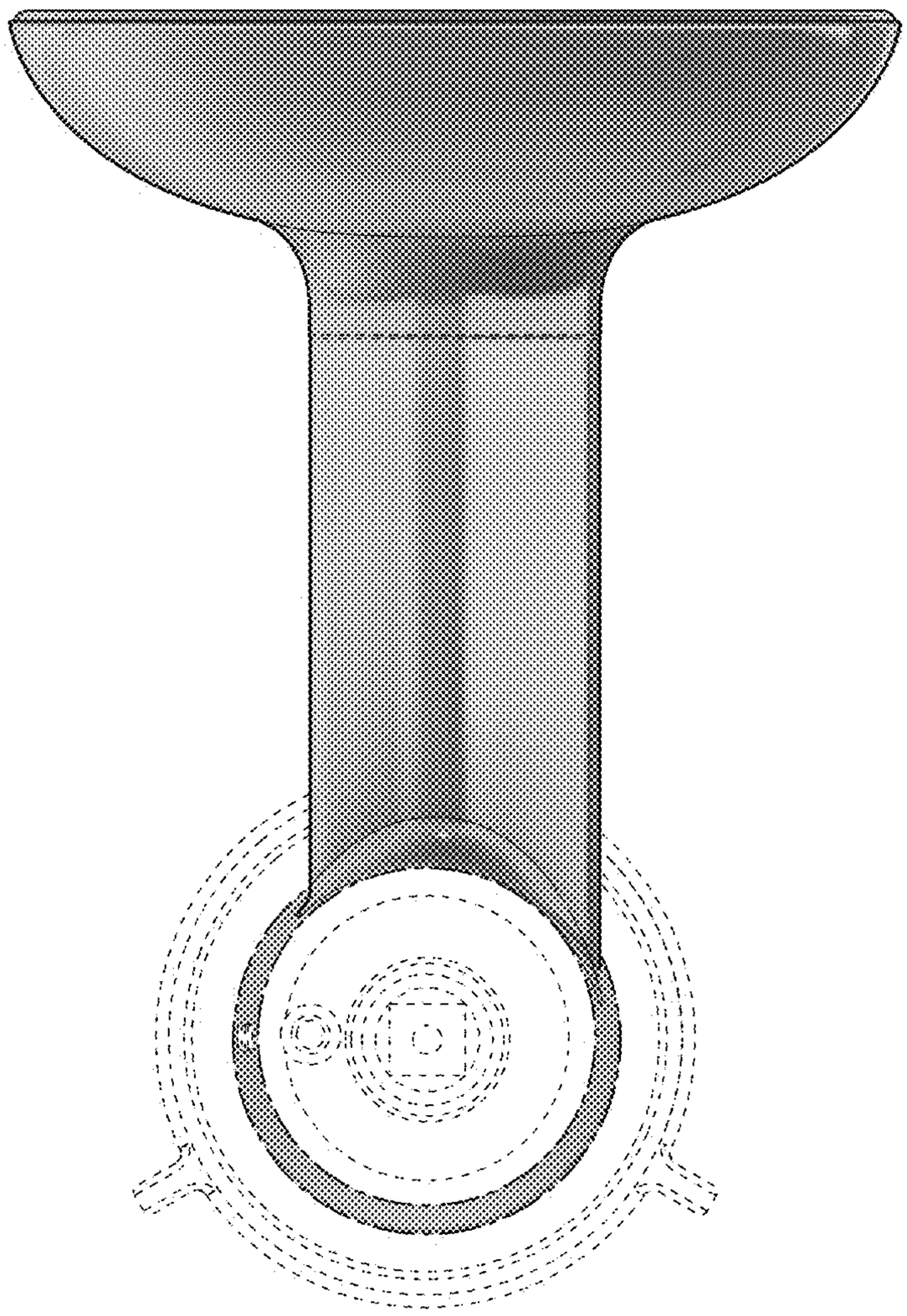


FIG. 4

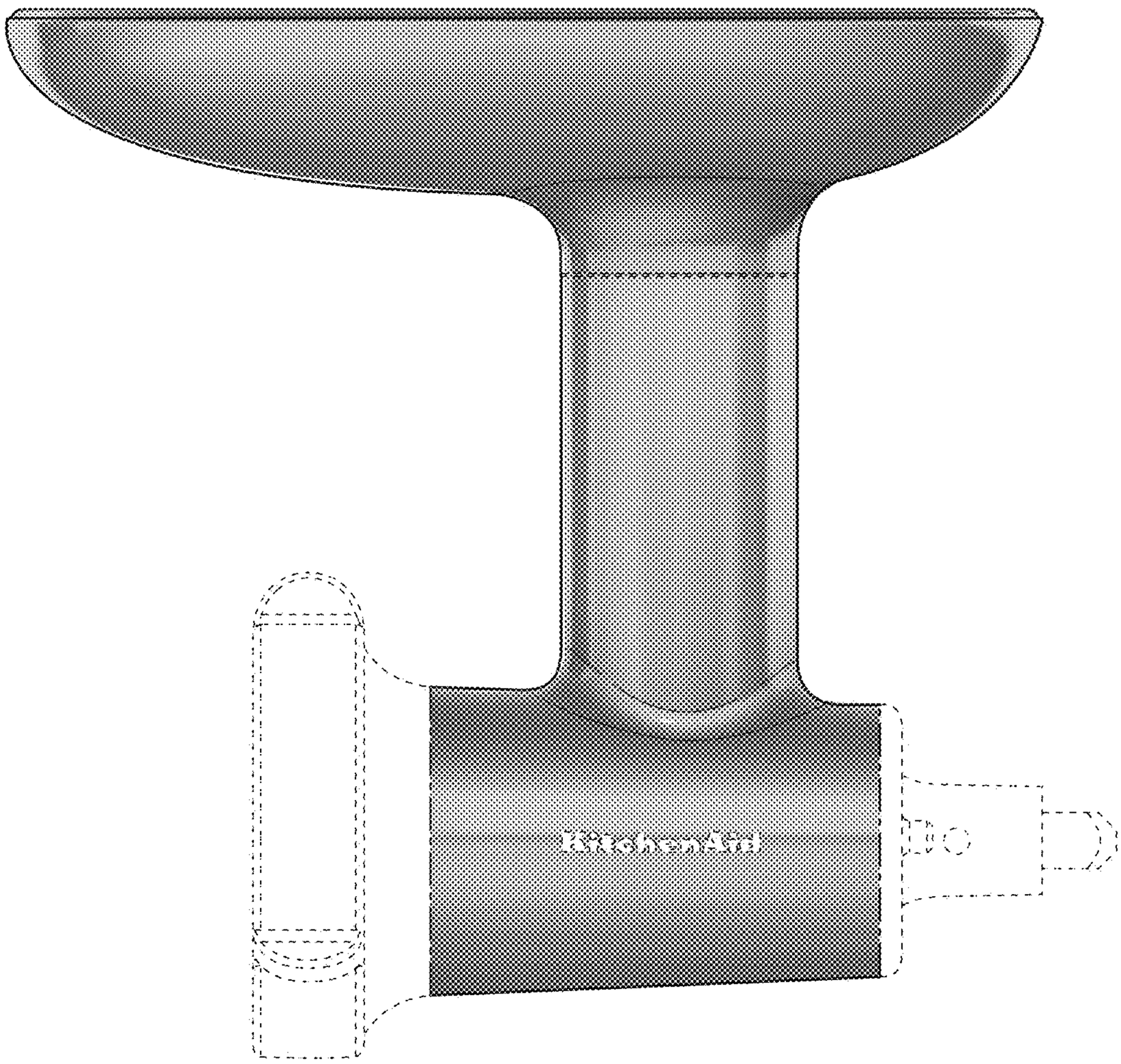


FIG. 5

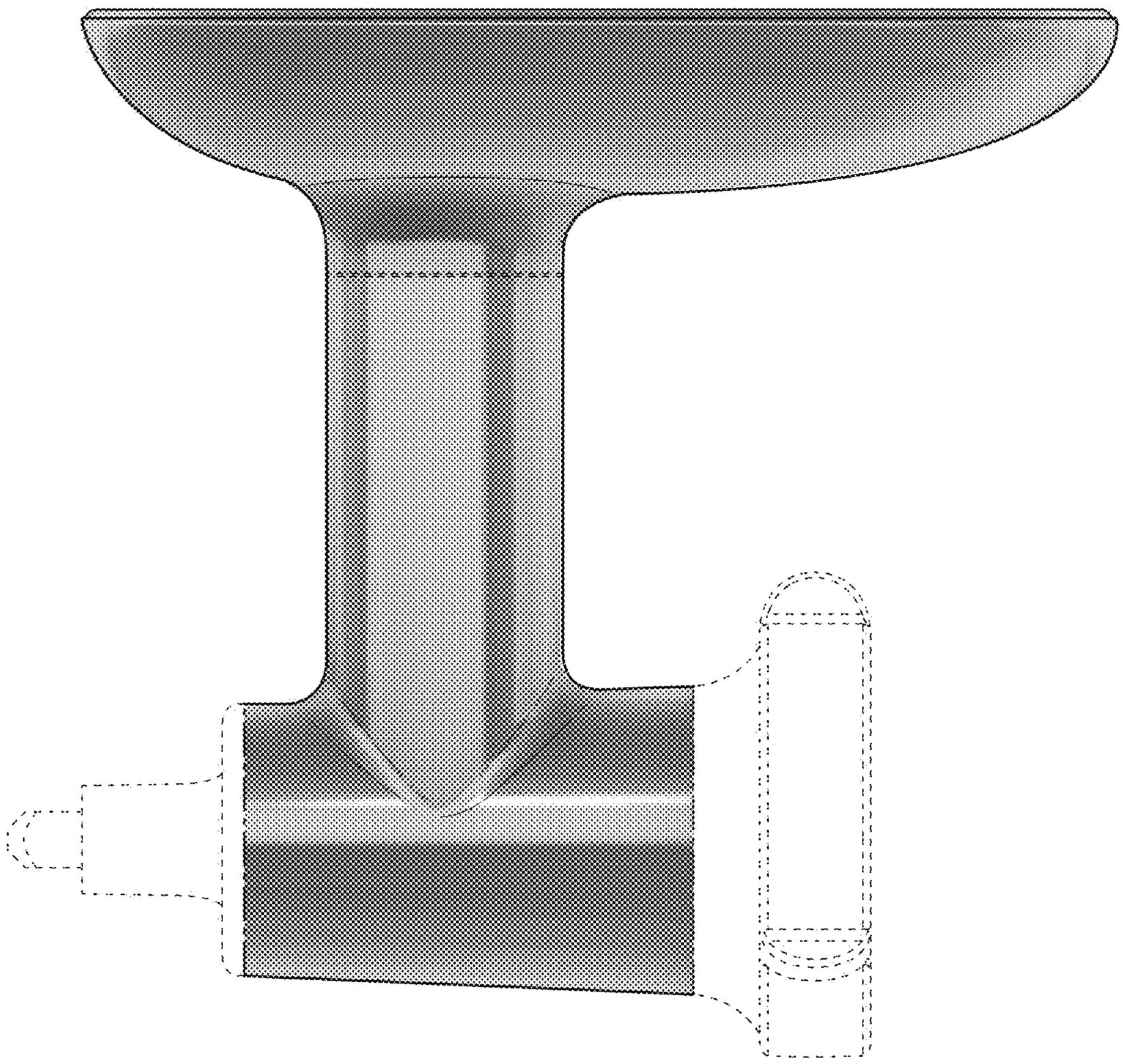


FIG. 6

FIG. 7

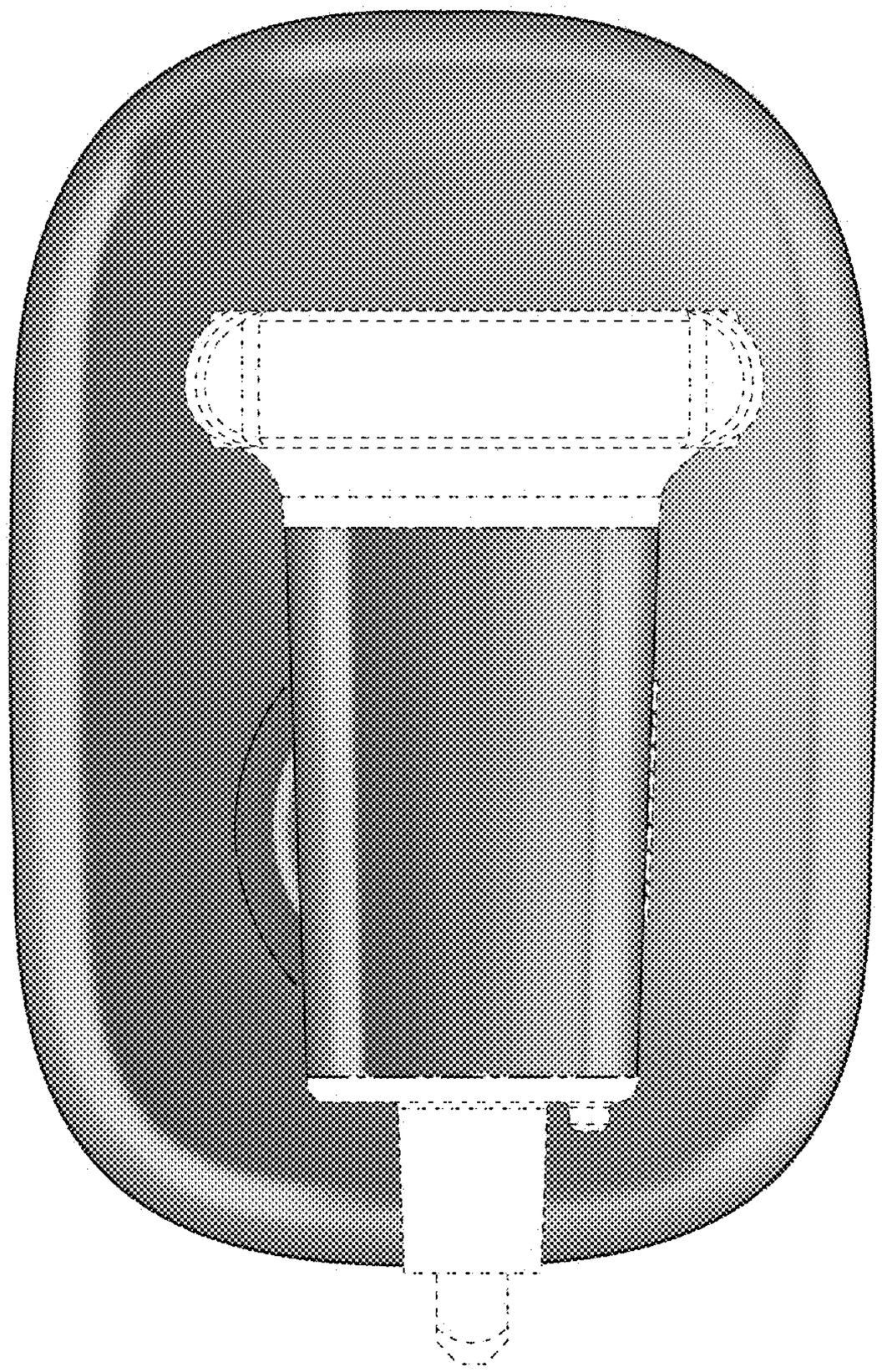


FIG. 8