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Li et al.

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(54) **HANDHELD SMART ORAL IRRIGATOR**

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(52) **U.S. Cl.**
USPC **D24/111**

(58) **Field of Classification Search**
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D4/102–102, 109–111, 138
CPC A61M 5/142; A61M 2205/502; A61M
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,471,890 A * 9/1984 Dougherty B65D 47/18
222/190
- D468,422 S * 1/2003 McCurrach D24/111
- D486,573 S * 2/2004 Callaghan D24/111
- D492,996 S * 7/2004 Rehkemper D24/111
- D548,334 S * 8/2007 Izumi D24/111
- D569,623 S * 5/2008 Beedham D4/101
- D625,406 S * 10/2010 Seki D24/111
- D669,978 S * 10/2012 Gebski D24/111
- D694,398 S * 11/2013 Taylor D24/108
- D702,830 S * 4/2014 Hannah D24/108

- D739,930 S * 9/2015 Takenouchi 604/118
- D747,464 S * 1/2016 Taylor A61C 17/0202
D24/111
- D758,736 S * 6/2016 Shigeno D4/101
- D778,433 S * 2/2017 Li D24/111
- D780,908 S * 3/2017 Ladwig D24/111
- D782,657 S * 3/2017 Williams D24/111
- D795,419 S * 8/2017 Kohler D24/111
- D832,422 S * 10/2018 Kohler D24/111
- D861,351 S * 10/2019 Albay D4/101

(Continued)

FOREIGN PATENT DOCUMENTS

CN 304371065 * 11/2017

OTHER PUBLICATIONS

Waterpik Cordless Plus Water Flosser White WP450—Best Buy reviews 2018, <https://www.bestbuy.com/site/waterpik-cordless-plus-water-flosser-white/9984479.p?skul...> site visited May 24, 2020 (Year: 2018).*

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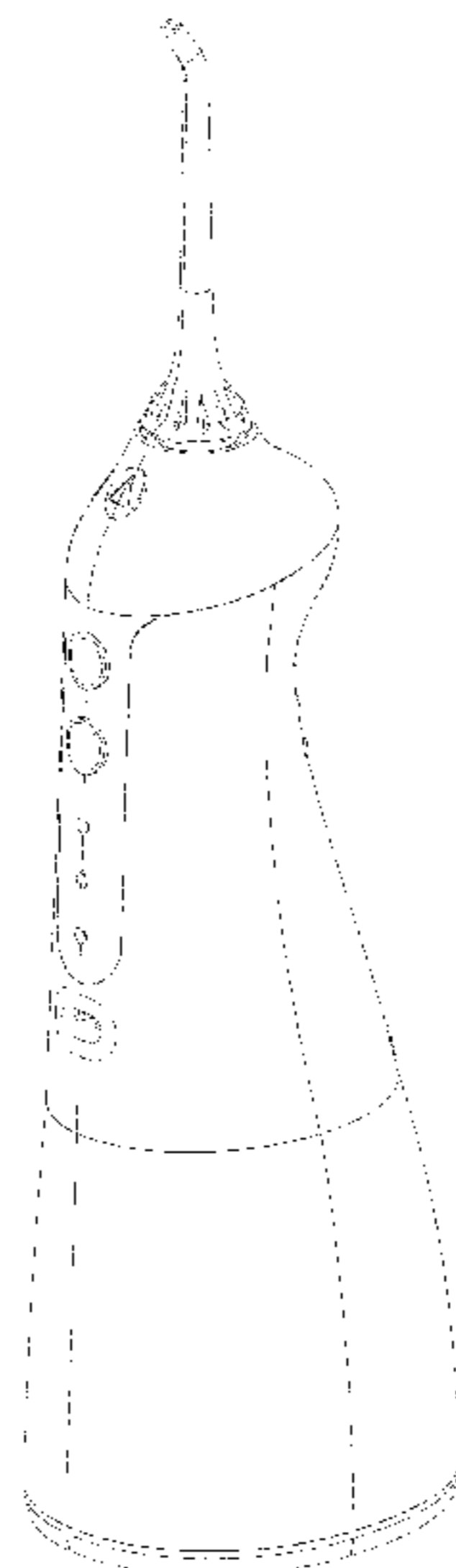
(57) **CLAIM**

The ornamental design for a handheld smart oral irrigator, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view for a handheld smart oral irrigator showing our new design; FIG. 2 is a front side view thereof; FIG. 3 is a rear side view thereof; FIG. 4 is a right side view thereof; FIG. 5 is a left side view thereof; FIG. 6 is a bottom plan view thereof; and, FIG. 7 is a top plan view thereof. The broken lines depict features of the handheld smart oral irrigator that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D865,160	S	*	10/2019	Yan	.....	D24/111
D881,383	S	*	4/2020	Chen	.....	D24/111
D881,582	S	*	4/2020	Smigel	.....	D4/101
D888,935	S	*	6/2020	Fang	.....	D24/111
D888,936	S	*	6/2020	Bondurant	.....	D24/111
D895,791	S	*	9/2020	Yuan	.....	D24/111
D903,099	S	*	11/2020	Huang	.....	D24/111
D904,600	S	*	12/2020	Yan	.....	D24/111
D904,601	S	*	12/2020	Xu	.....	D24/111
2008/0008979	A1	*	1/2008	Thomas	.....	A61C 17/0205 433/80
2016/0151133	A1	*	6/2016	Luetngen	.....	F04B 19/22 433/80

* cited by examiner

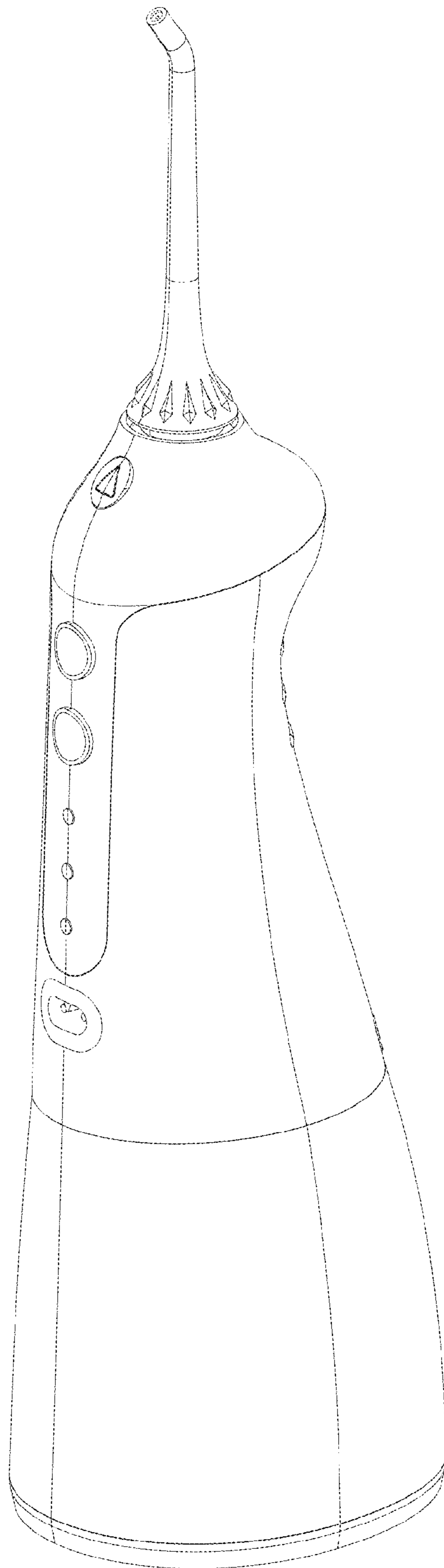


FIG.1

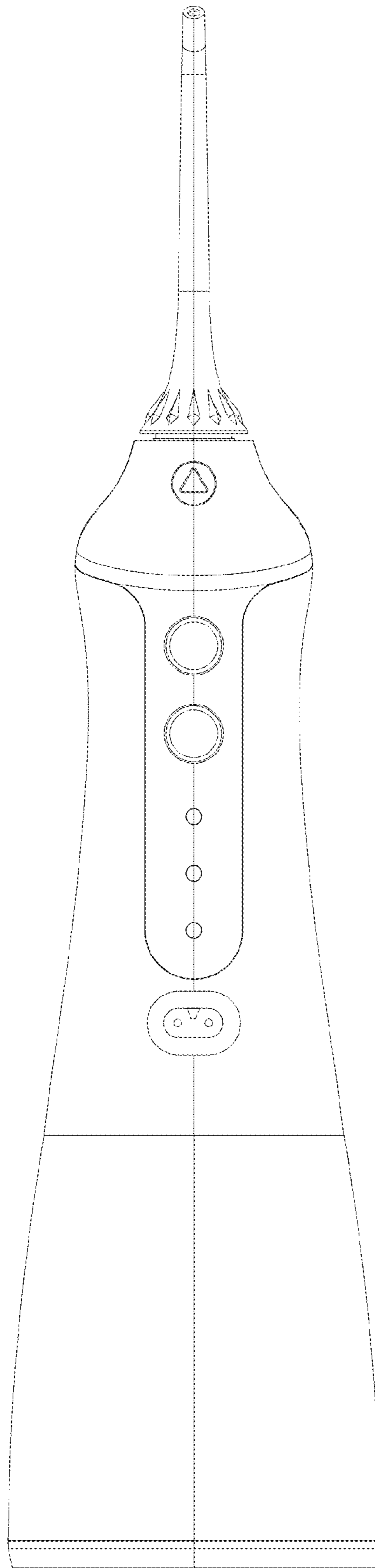


FIG 2

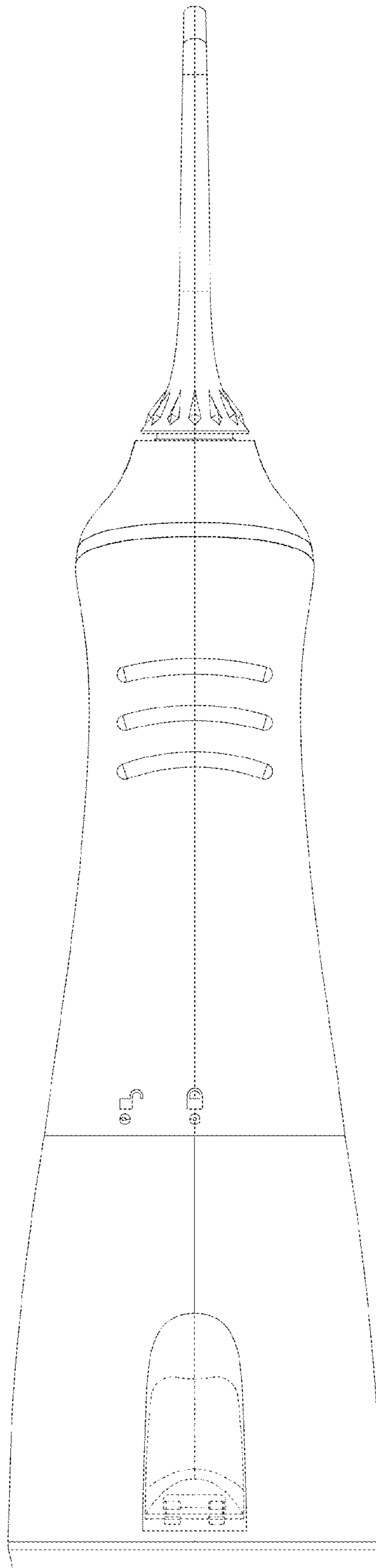


FIG. 3

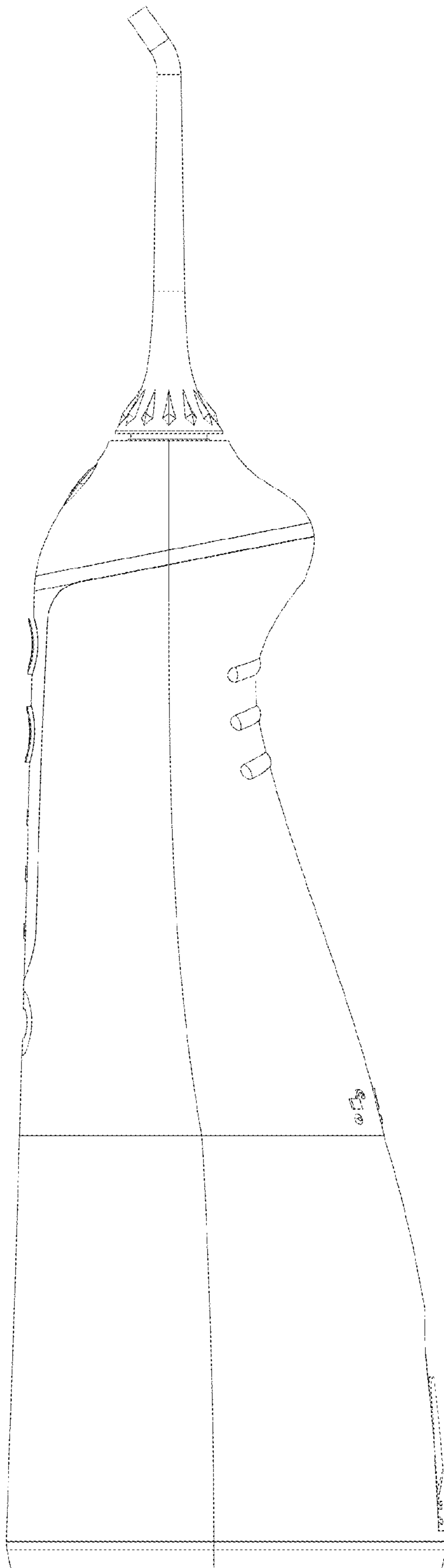


FIG. 4

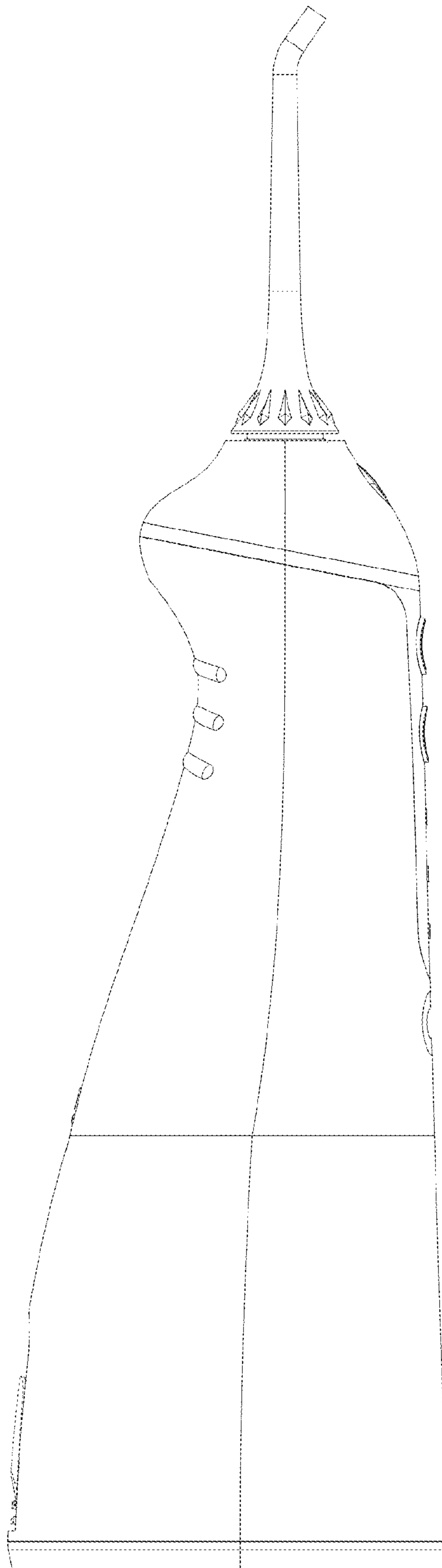


FIG. 5

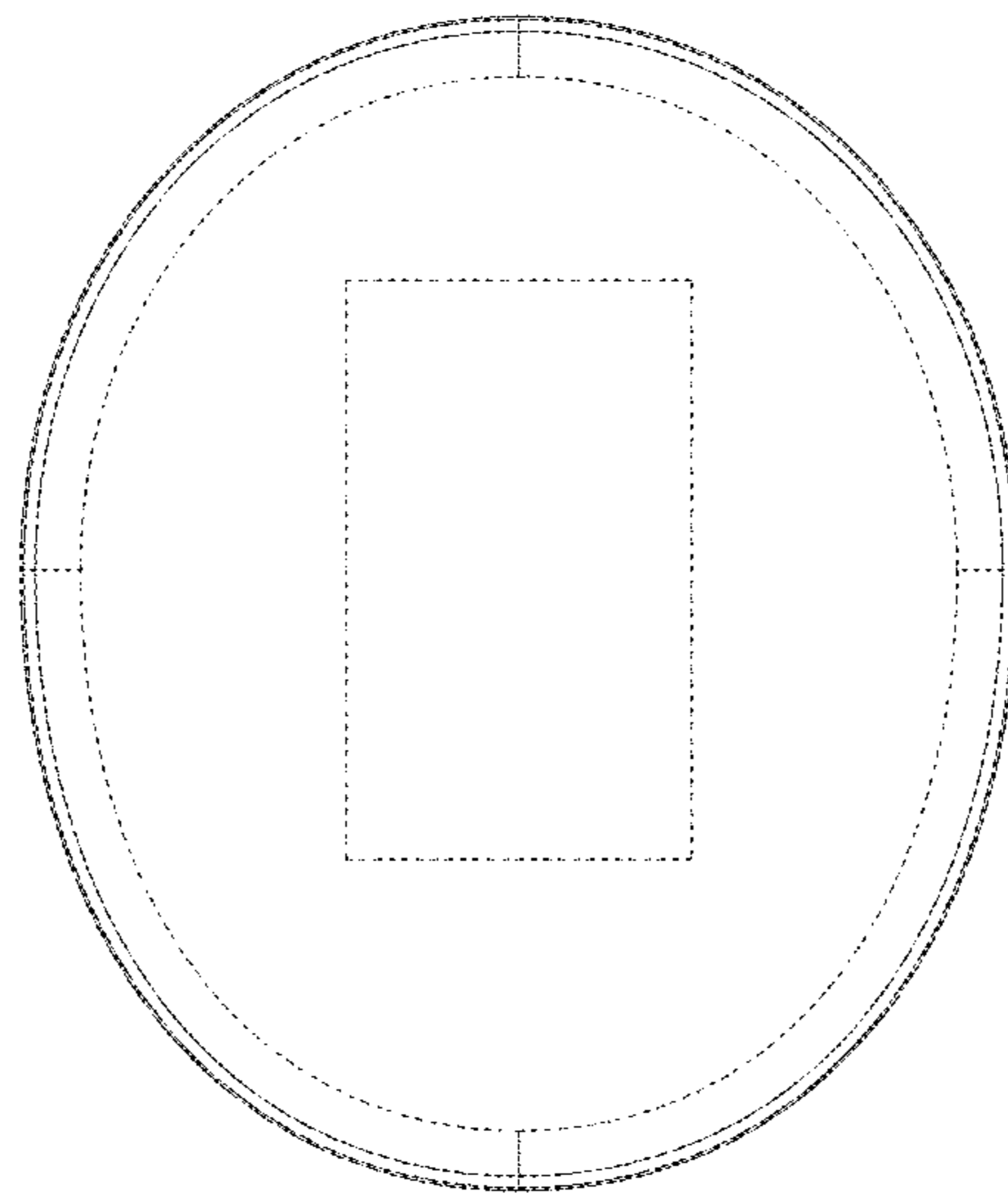


FIG. 6

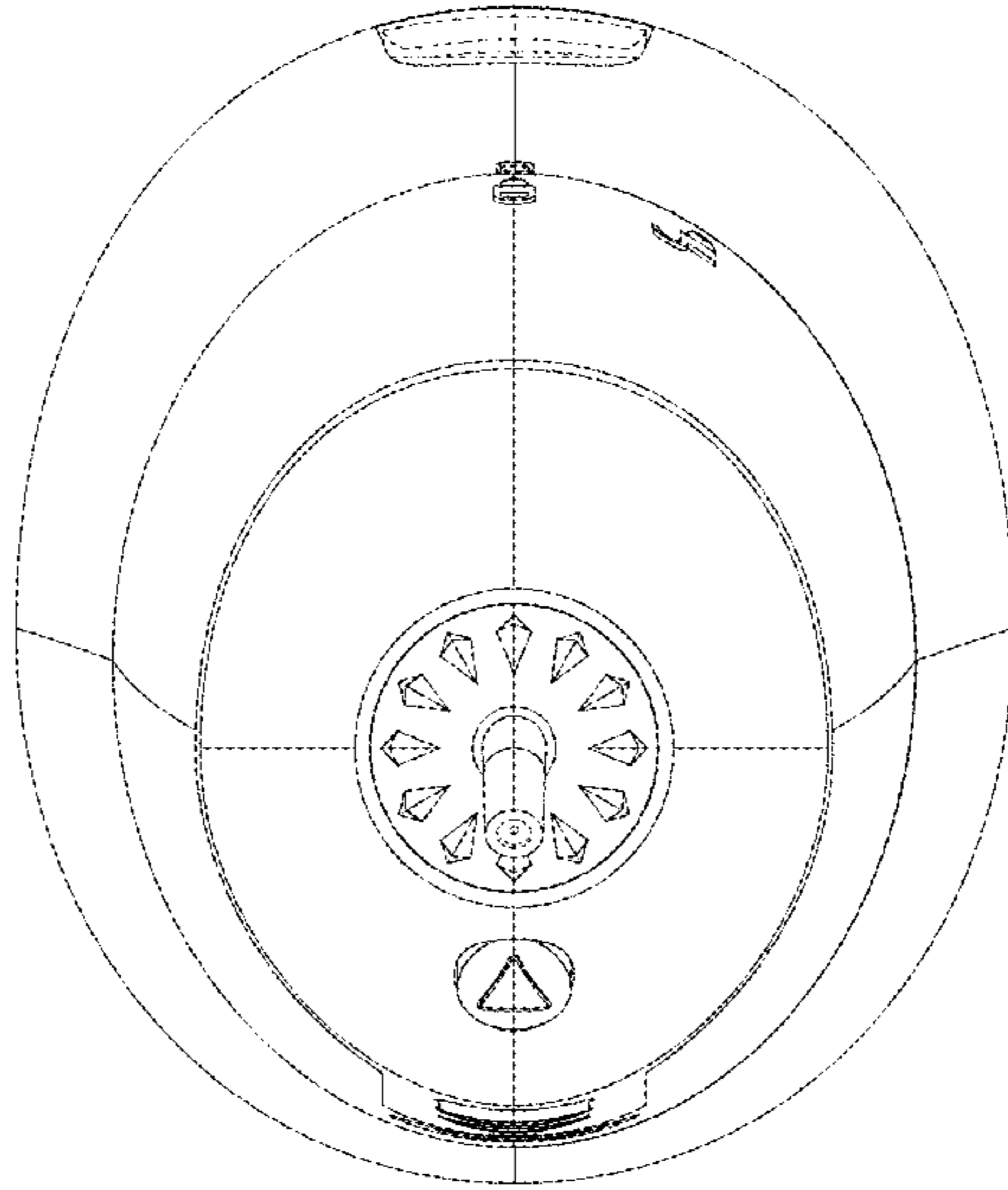


FIG.7