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

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(54) **FILTER CARTRIDGE**

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(**) Term: **14 Years**

(21) Appl. No.: **29/388,204**

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D601,238 S	9/2009	Lundgren et al.
D636,859 S	4/2011	Lundgren et al.
2002/0170279 A1	11/2002	Gustafson et al.
2003/0051455 A1	3/2003	Gieseke et al.
2004/0035097 A1	2/2004	Schlenker et al.
2005/0193694 A1	9/2005	Gieseke et al.
2006/0086075 A1	4/2006	Scott et al.
2006/0111037 A1*	5/2006	Poirier et al. 454/270
2007/0084157 A1	4/2007	Heikamp et al.
2009/0071111 A1	3/2009	Lundgren et al.
2010/0031940 A1	2/2010	Mosset et al.

FOREIGN PATENT DOCUMENTS

CN	2296402 Y	3/1997
DE	100 52 524	10/2000

(Continued)

OTHER PUBLICATIONS

Pending claims corresponding to U.S. Appl. No. 12/157,650.

(Continued)

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(57)

CLAIM

The ornamental design for filter cartridge, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a filter cartridge showing our design.

FIG. 2 is a first side elevation view thereof;

FIG. 3 is a second side elevation view, opposite to the view shown in FIG. 2;

FIG. 4 is a third side elevation view thereof taken from the right toward the left of FIG. 2;

FIG. 5 is fourth side elevation view thereof taken generally opposite that shown in FIG. 4;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof; and,

FIG. 8 is a bottom perspective view thereof.

The broken line showing of parts of the drawings is included for the purpose of illustrating use and environment and forms no part of the claimed design.

1 Claim, 7 Drawing Sheets

Related U.S. Application Data

(63) Continuation of application No. 29/308,151, filed on May 30, 2008, now Pat. No. Des. 636,859.

(51) **LOC (9) Cl.** **23-04**

(52) **U.S. Cl.** **D23/365**

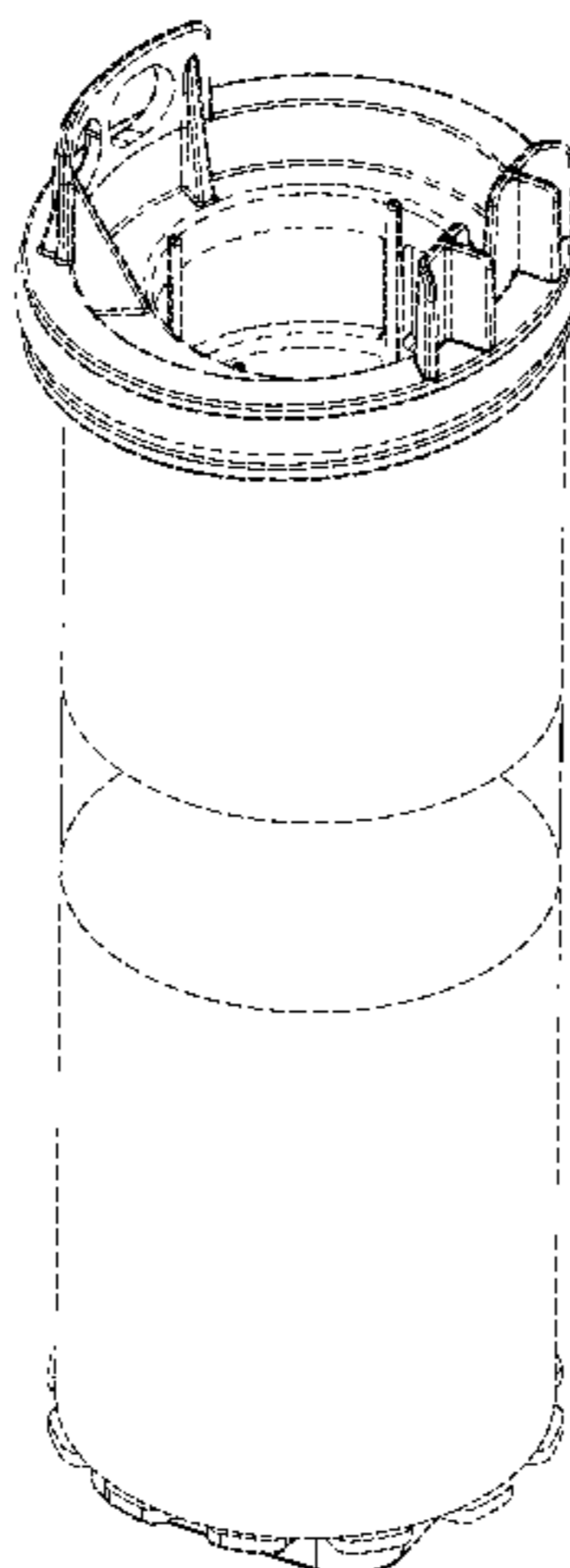
(58) **Field of Classification Search** D23/365, D23/363, 358, 386, 354, 341, 364, 366, 351, D23/393, 269, 262, 370; 55/385.3, 502, 55/497, 506, 505, 521, 495, 422, 493, DIG. 30, 55/DIG. 3; 210/497.1; D15/5; 239/44; 96/52; 454/270

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,164,141 A	1/1965	Jones
4,011,846 A	3/1977	Gagliardi
5,121,881 A *	6/1992	Lembeck 239/44
D335,531 S *	5/1993	Kunze et al. D23/366
5,222,488 A *	6/1993	Forsgren 55/497
D353,451 S *	12/1994	Kunze D23/366
5,795,369 A *	8/1998	Taub 55/521
6,440,188 B1 *	8/2002	Clements et al. 55/502
D466,520 S *	12/2002	Brent et al. D15/5
6,663,695 B2 *	12/2003	Ike et al. 96/52
6,852,148 B2	2/2005	Gieseke et al.
D554,745 S *	11/2007	Urfig D23/351
D558,325 S *	12/2007	Karnes D23/393
7,303,605 B2 *	12/2007	Zia et al. 55/495



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FOREIGN PATENT DOCUMENTS

GB	2 033 247	5/1980
GB	2106410	4/1983
WO	99/00587	1/1999
WO	WO 02/076575	10/2002
WO	WO 2004/045743	6/2004
WO	WO 2005/063358	7/2005
WO	WO 2005/105266	11/2005
WO	WO 2006/050114	5/2006
WO	WO 2006/084282	8/2006
WO	WO 2007/009040	1/2007
WO	WO 2007/053411	10/2007
WO	WO 2008/147585	12/2008
WO	WO 2009/018454	5/2009

OTHER PUBLICATIONS

Search Report and Written Opinion corresponding to PCT/US2008/066757.

Search Report and Written Opinion corresponding to PCT/US2008/057493.

Search Report and Written Opinion corresponding to PCT/US2006/041738.

U.S. Appl. No. 60/906,729, which corresponds to PCT/US2008/056498, which published as WO 2008/147585.

* cited by examiner

FIG. 1

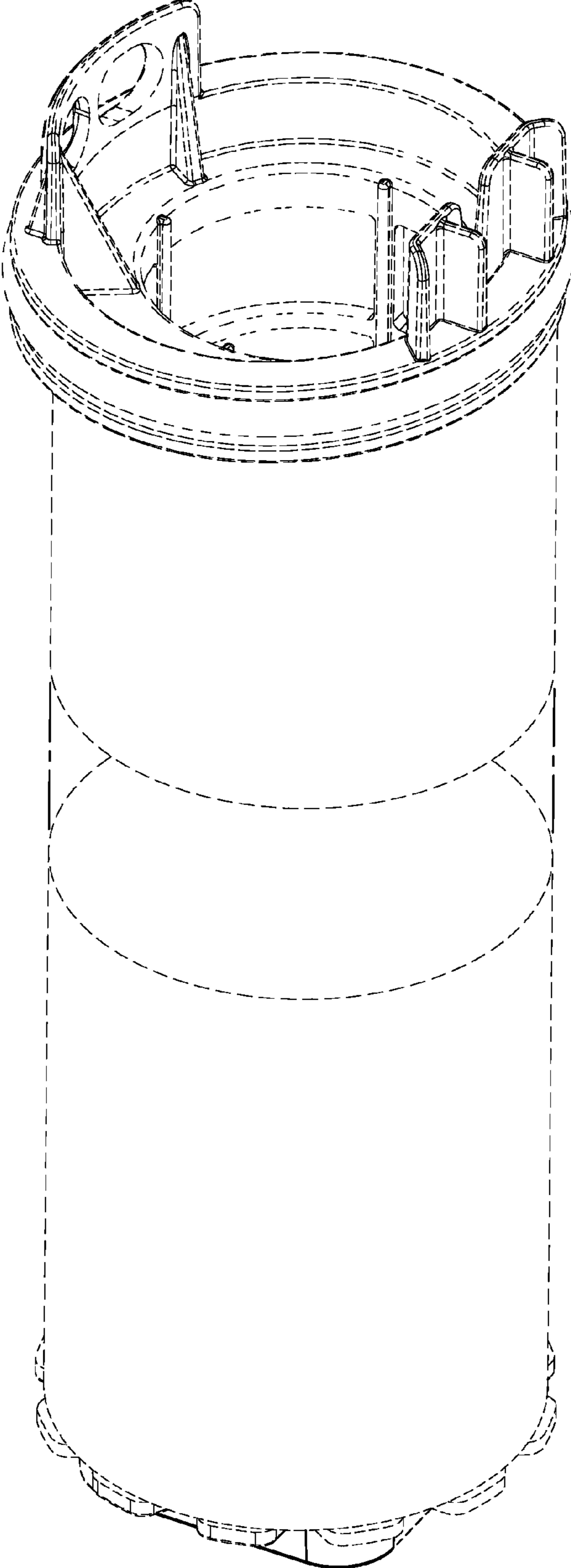


FIG. 2

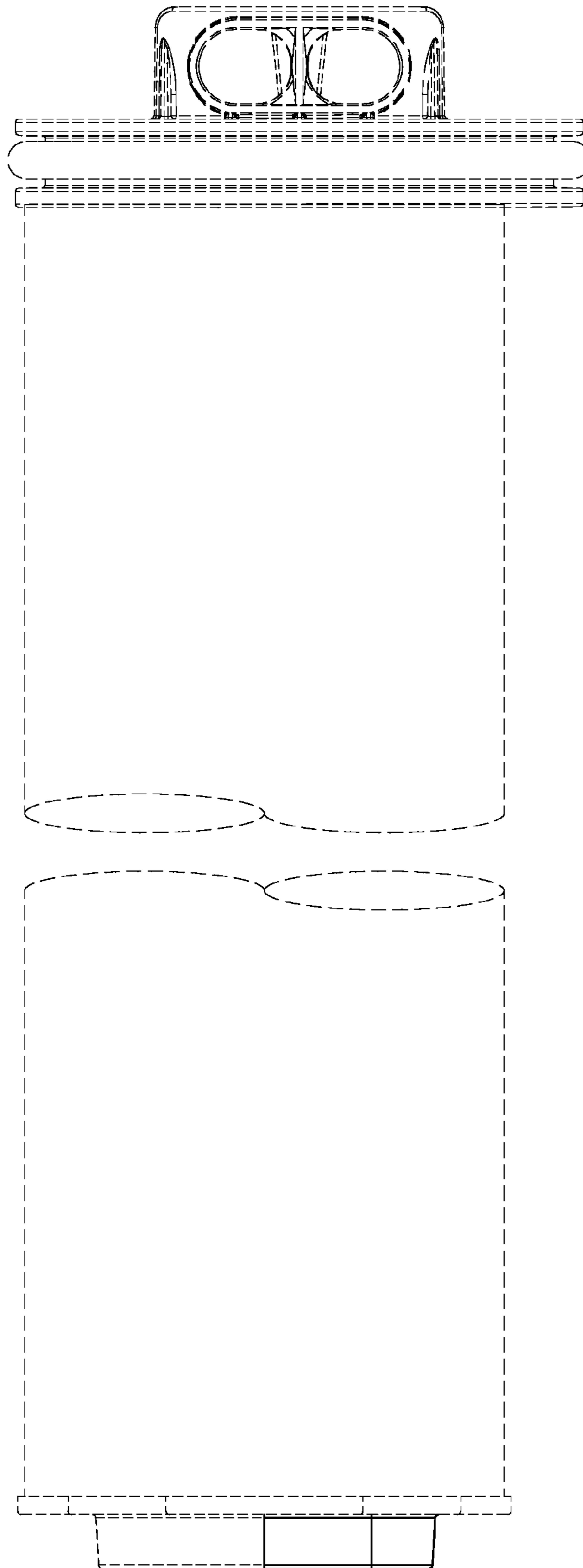


FIG. 3

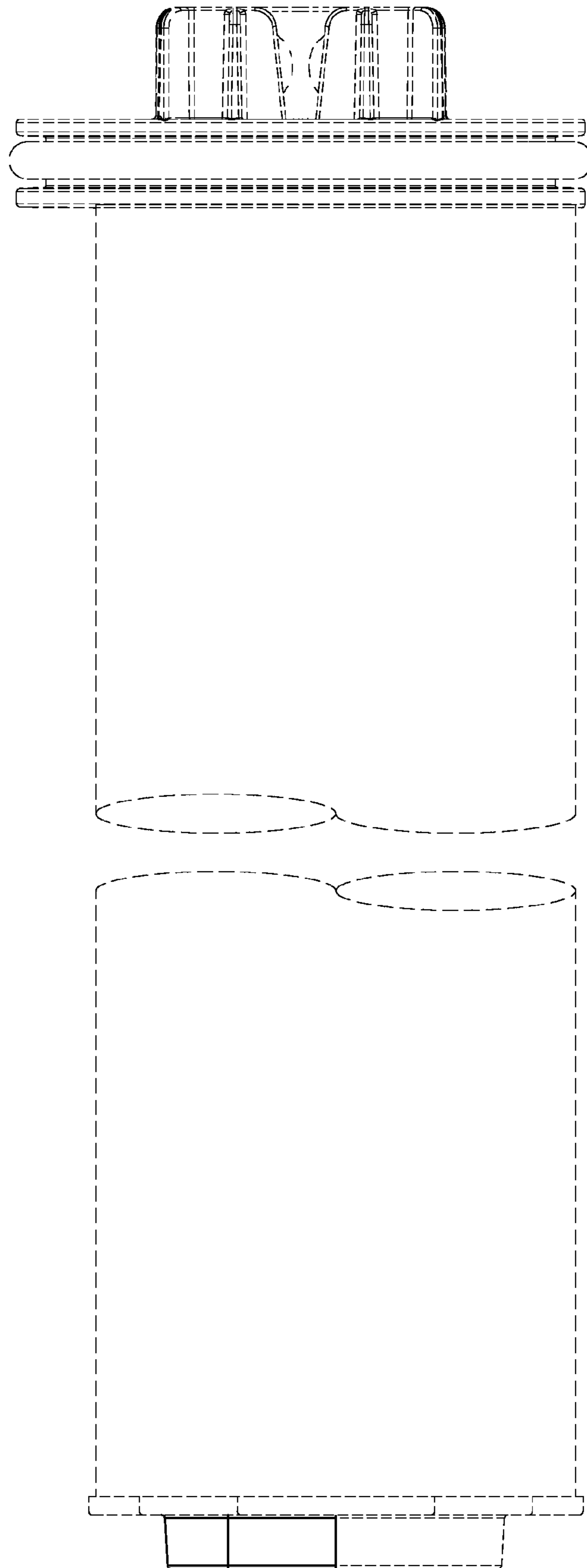


FIG. 4

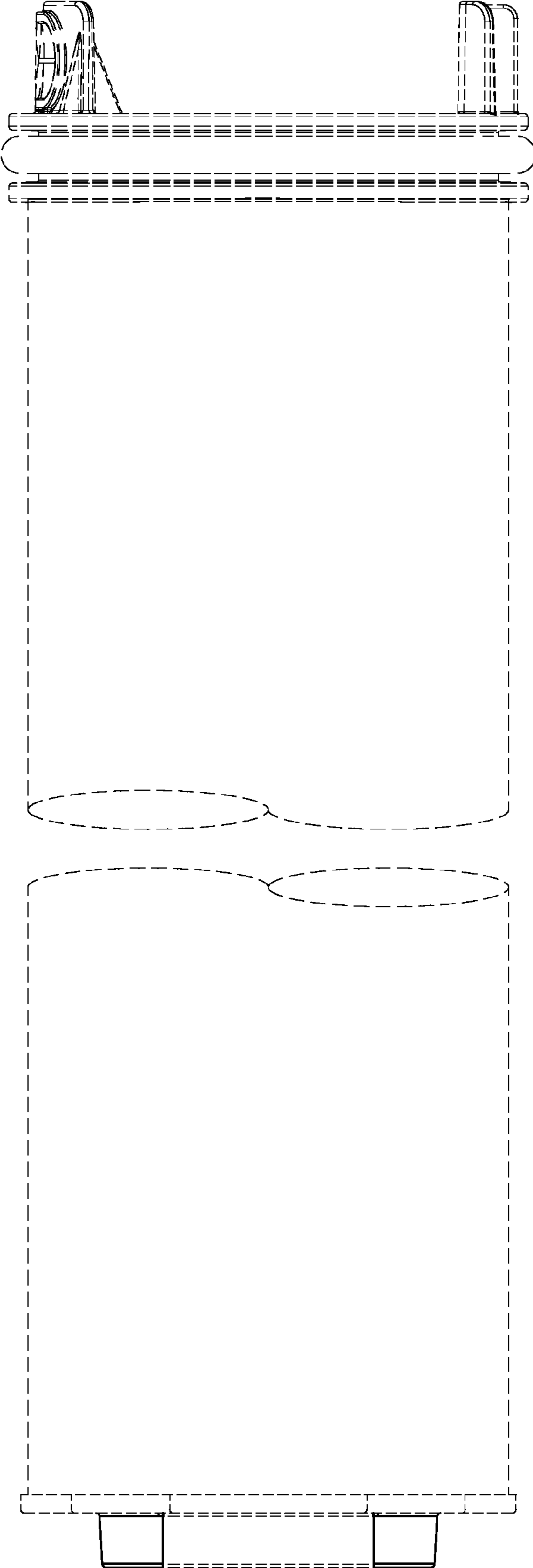


FIG. 5

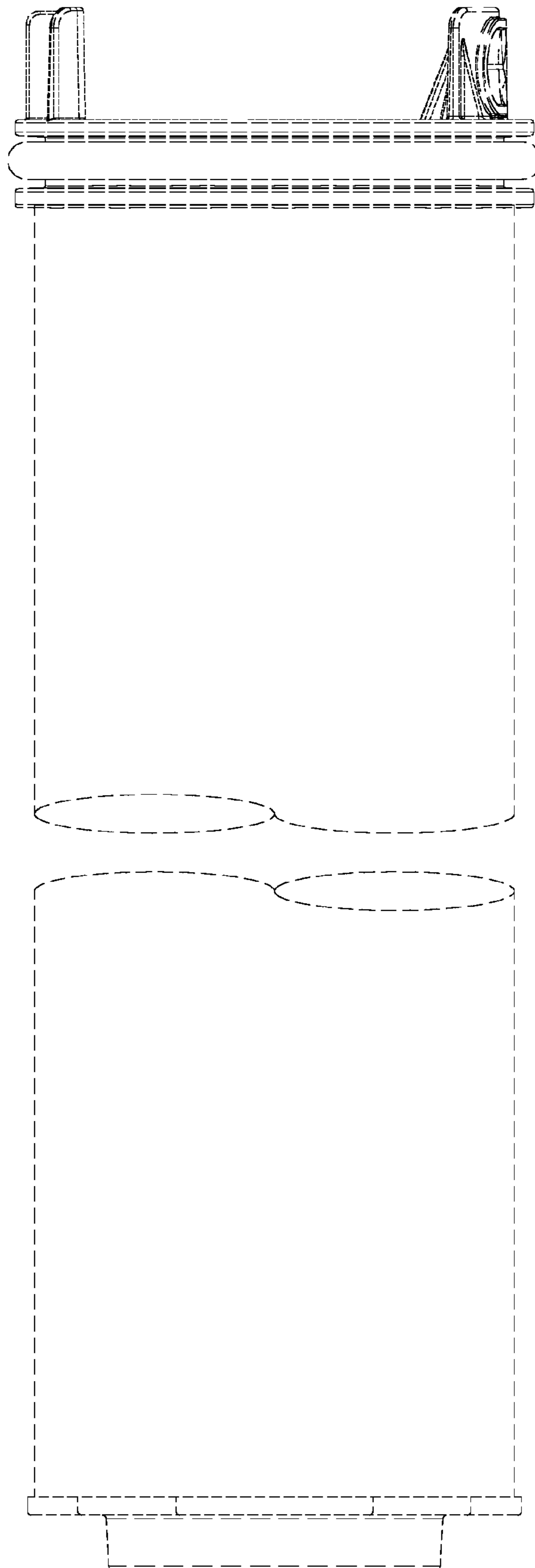


FIG. 6

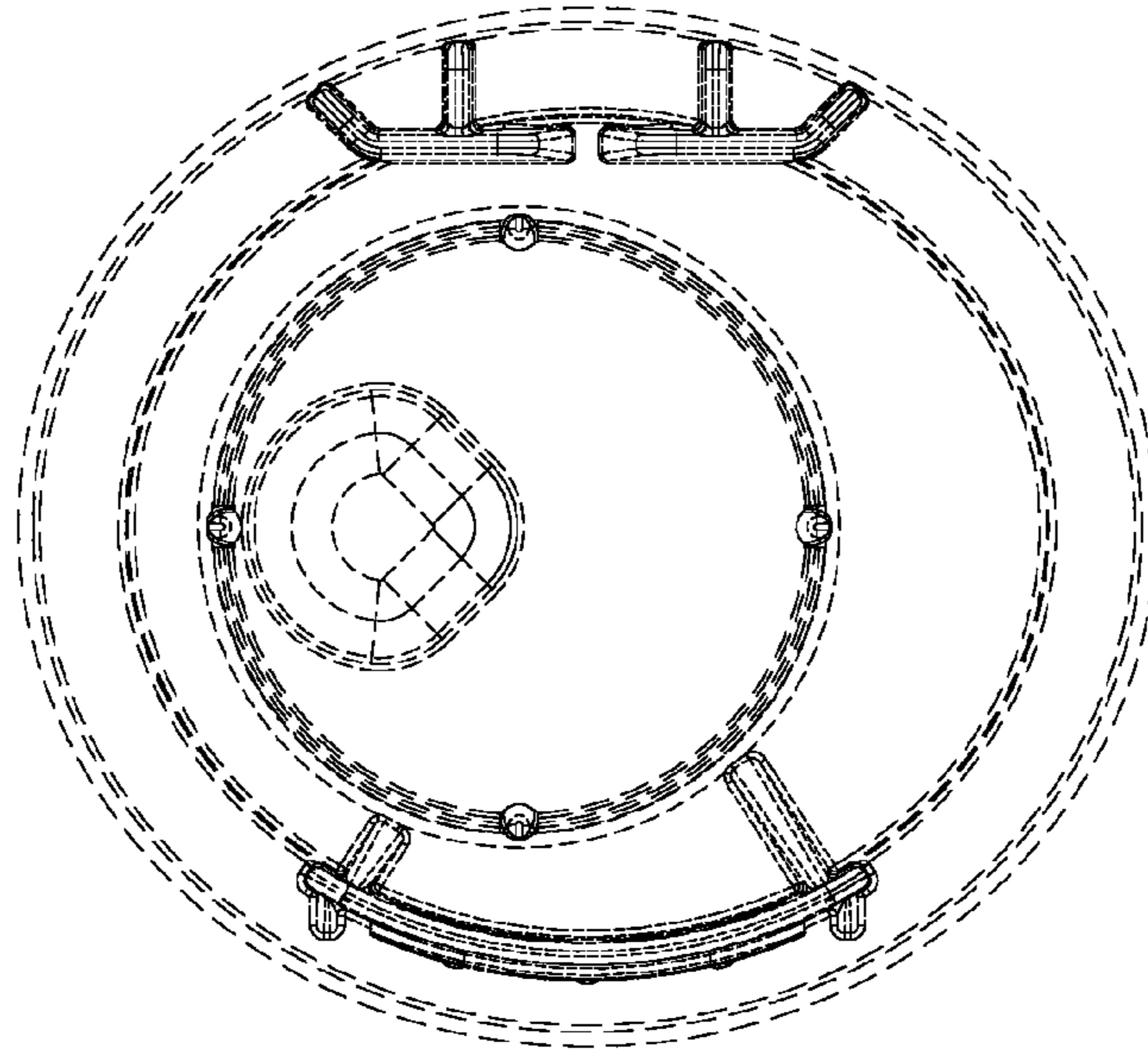
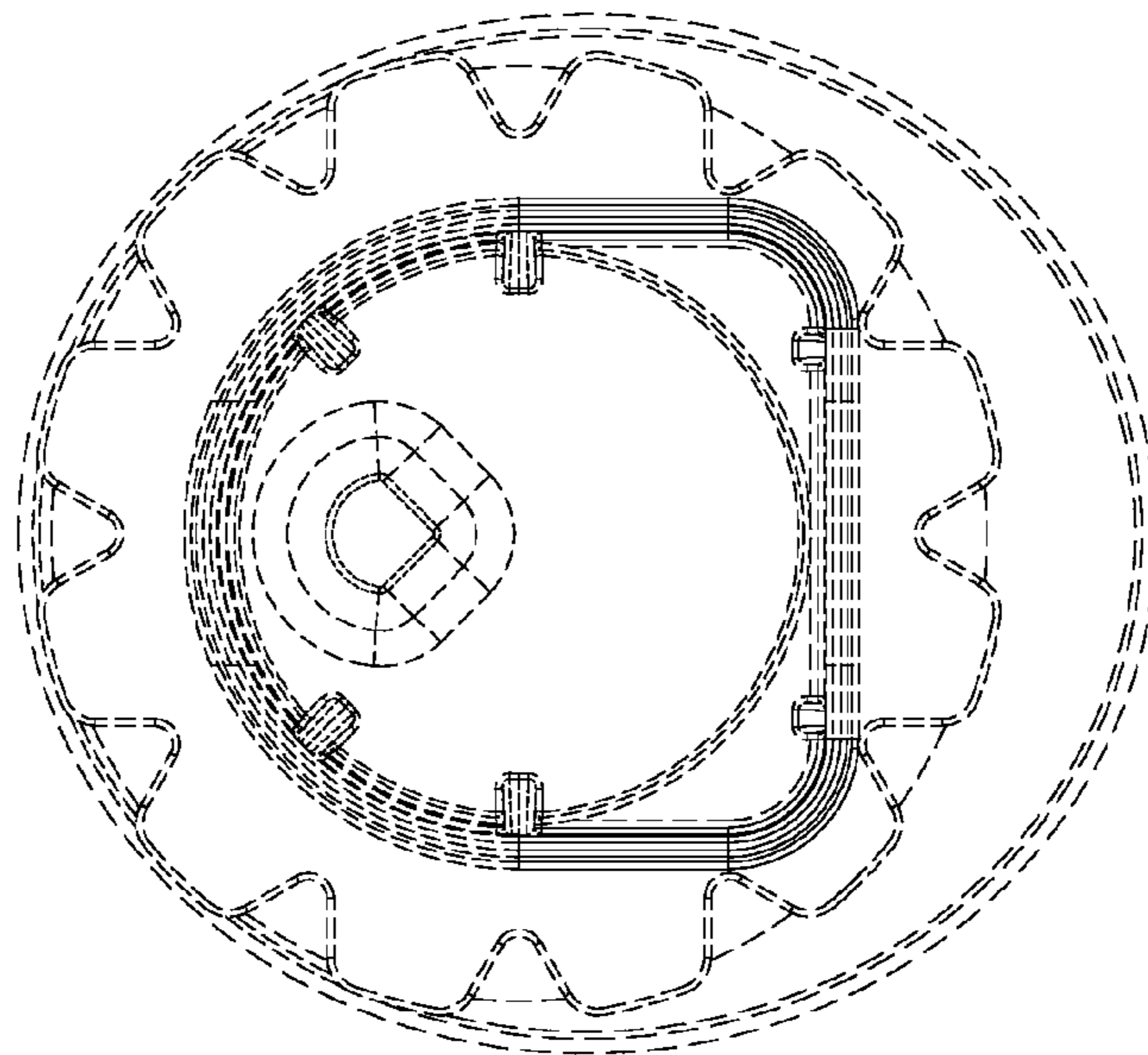


FIG. 7



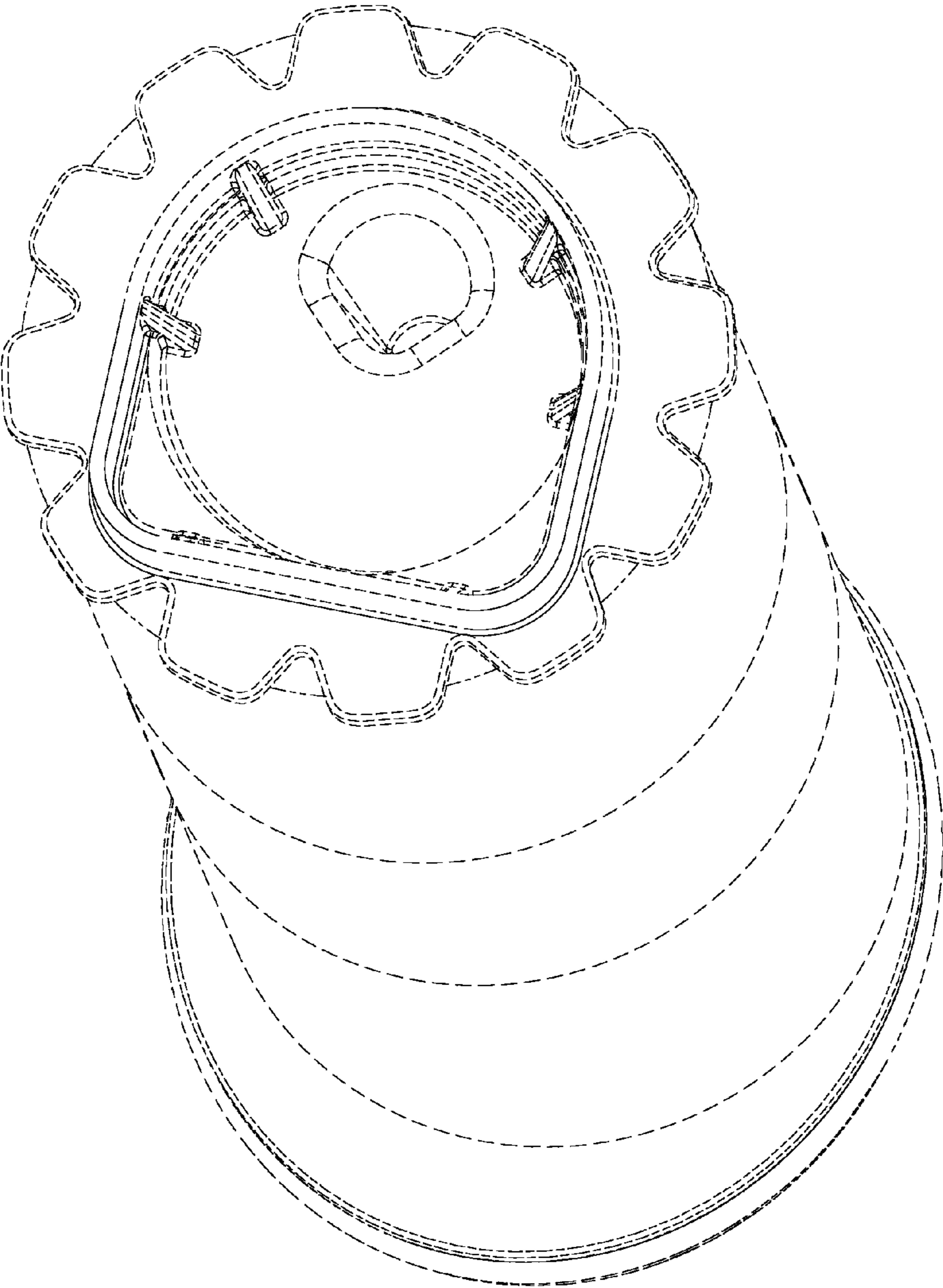


FIG. 8