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(12) **United States Design Patent** (10) **Patent No.:** **US D802,532 S**
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(54) **CYLINDER ASSEMBLY**

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

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Related U.S. Application Data

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May 16, 2013, now Pat. No. Des. 732,473.

(51) **LOC (10) Cl.** **13-03**

(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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D14/300, 308, 311-314, 348, 349, 356;
60/476; 137/343; 200/43.14, 50.01,
200/50.21-50.23; 361/44, 115, 608, 634,
361/679.01; D15/143; D8/323, 326, 327,
D8/328, 329, 349, 382, 396, 400, 499;
D99/29

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H01H 19/28; H01H 19/36; H01H 19/64;
H01H 1/06; H01H 1/2041; H01H 1/42;
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71/04; H01H 71/1054; H01H 9/167;
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H01G 9/008; H01G 4/32; H01G 9/10;

H01G 4/28; A61N 1/3975; F15B
15/1428; F15B 11/0365; F15B 15/084;
F15B 15/1414; F15B 15/1433; F15B
2211/7056; Y02E 60/13; H01T 13/08;
H01T 13/06; H01T 13/20; A61G 7/1019;
A61G 7/1044; A61G 7/1076

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,632,734 A * 6/1927 Hammer A47G 29/1201
232/24
D218,014 S * 7/1970 Pawlow D8/328
(Continued)

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(57) **CLAIM**

The ornamental design for a cylinder assembly, as shown
and described.

DESCRIPTION

FIG. 1 is a front top perspective view of a cylinder assembly
showing our new design.

FIG. 2 is a front bottom perspective view thereof.

FIG. 3 is rear top perspective view thereof.

FIG. 4 is rear bottom perspective view thereof.

FIG. 5 is a front view thereof.

FIG. 6 is a rear view thereof.

FIG. 7 is a right side view thereof.

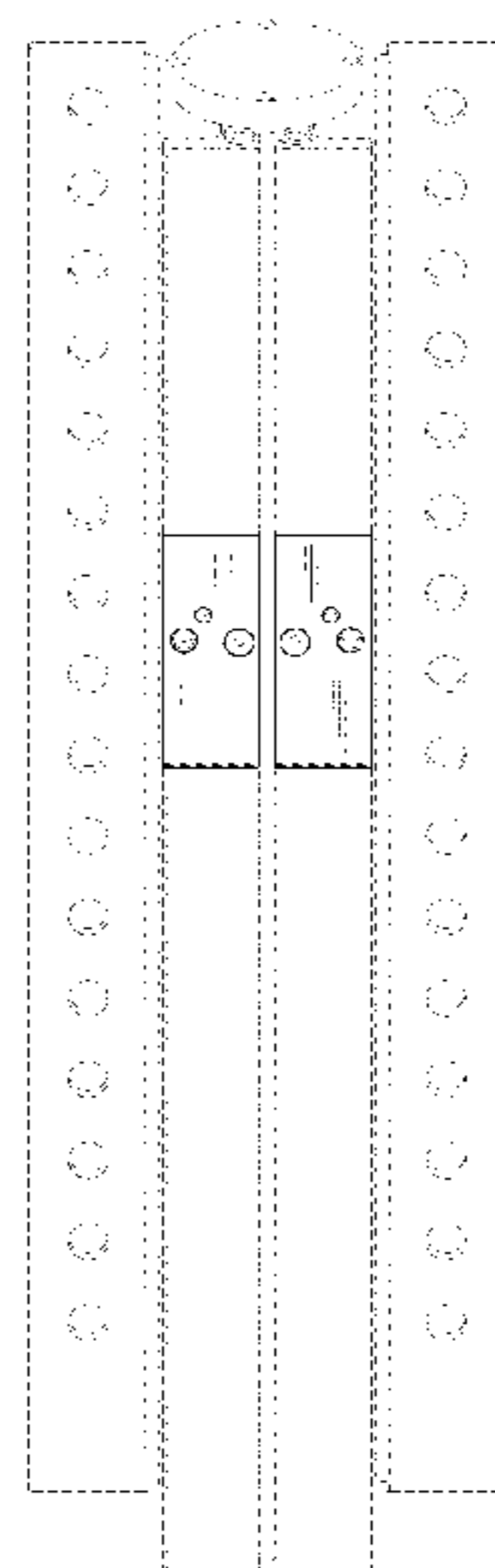
FIG. 8 is a left side view thereof.

FIG. 9 is a top view thereof; and,

FIG. 10 is a bottom view thereof.

The broken line portion of the figure drawings is included to
show unclaimed subject matter only and forms no part of the
claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,046,421	A	9/1991	DeMoore	
D326,757	S *	6/1992	Ullman	D99/29
5,245,912	A	9/1993	Muller et al.	
D361,338	S *	8/1995	Bauer	D15/199
D361,580	S *	8/1995	Bauer	D15/138
5,522,302	A	6/1996	Yuda et al.	
D387,970	S *	12/1997	Enslen	D8/349
6,216,581	B1	4/2001	Murao et al.	
6,226,809	B1	5/2001	Davies	
D510,254	S *	10/2005	Cassidy	E05D 5/121 D8/328
D562,326	S	2/2008	Hsu	
D575,220	S *	8/2008	Pockalny	D12/223
D621,860	S	8/2010	Fukano et al.	
D636,251	S *	4/2011	Herglotz	D8/328
D636,799	S	4/2011	Fukano et al.	
D657,406	S *	4/2012	Saito	D15/143
D664,169	S	7/2012	Shirai et al.	
D665,433	S	8/2012	Beam et al.	
D726,525	S *	4/2015	Kenerly	D8/328
D732,473	S *	6/2015	Maurer	D13/122
D747,744	S *	1/2016	Maurer	D15/5
D748,450	S *	2/2016	Ganter	D8/323
D748,704	S *	2/2016	Jenny	D15/143
D784,264	S *	4/2017	Murphy	D13/147
2008/0054777	A1	3/2008	Callahan et al.	
2011/0289912	A1 *	12/2011	Olson	F15B 7/006 60/462
2013/0180397	A1 *	7/2013	Brettes	B64C 11/38 92/163
2013/0312848	A1	11/2013	Maurer et al.	

* cited by examiner

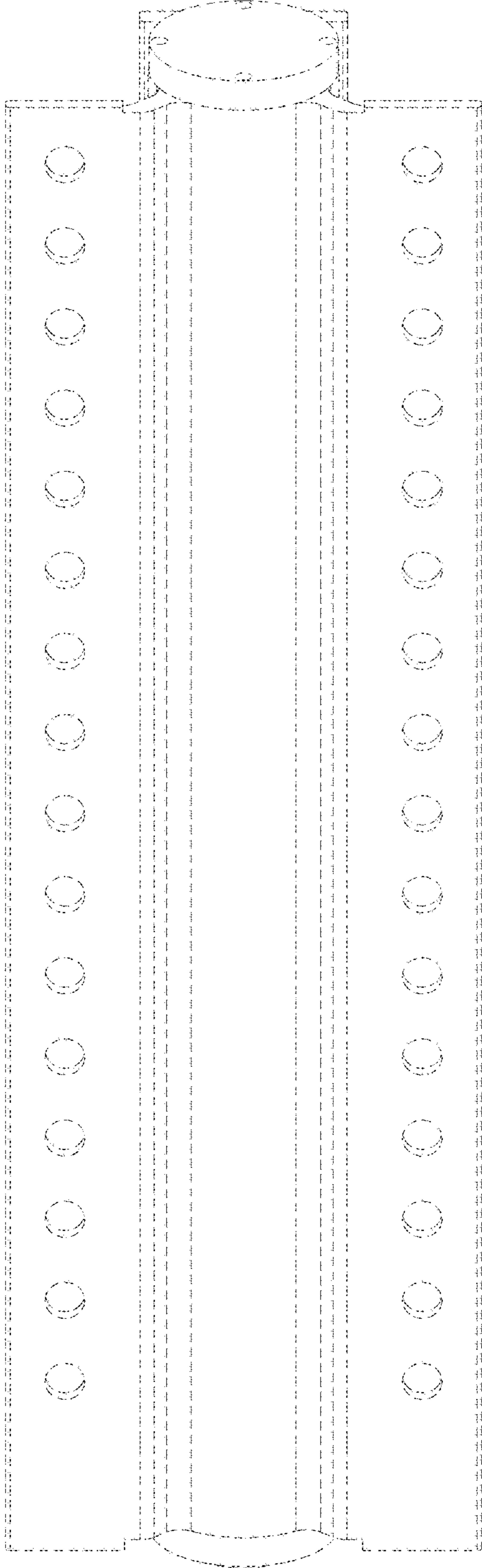


Fig. 1

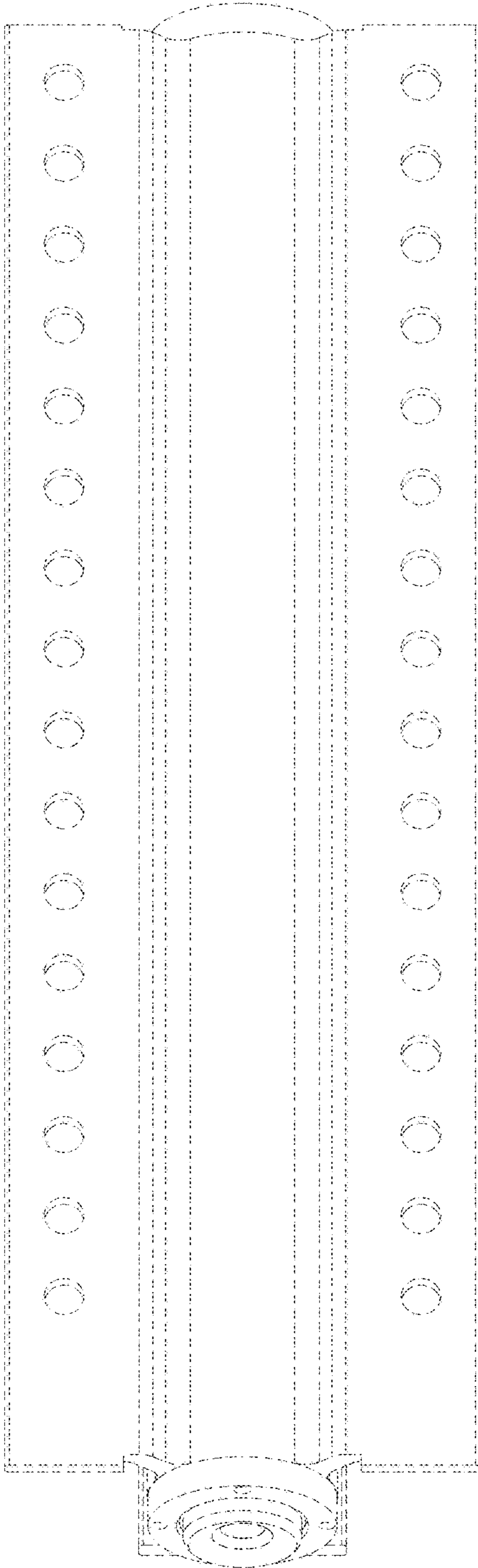


Fig. 2

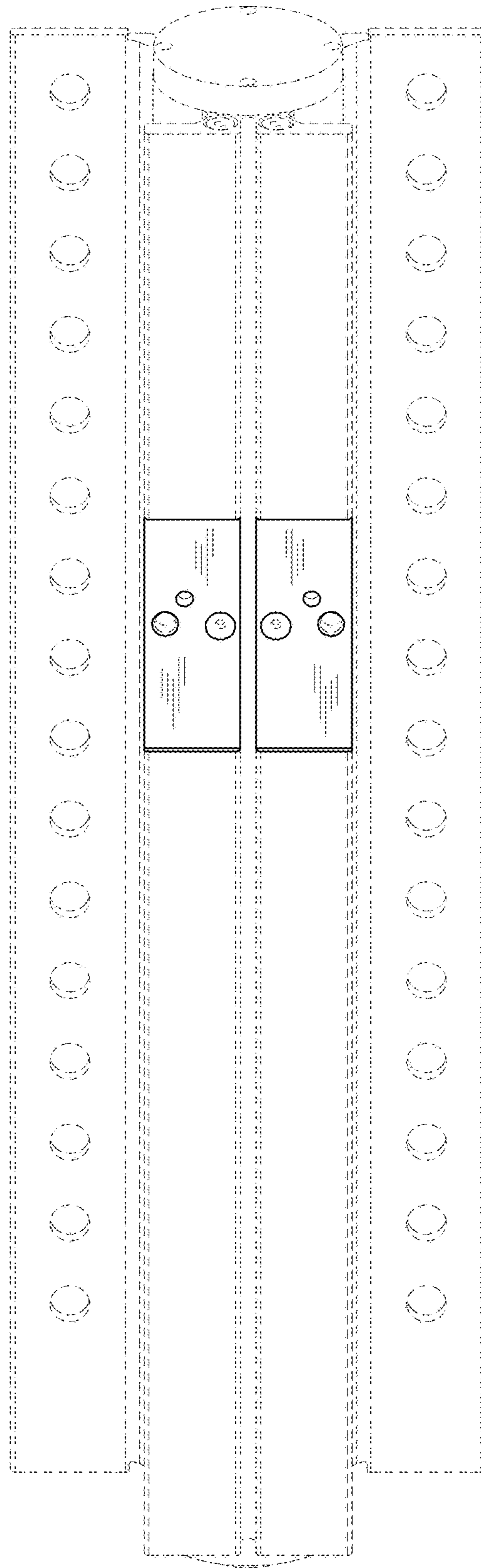


Fig. 3

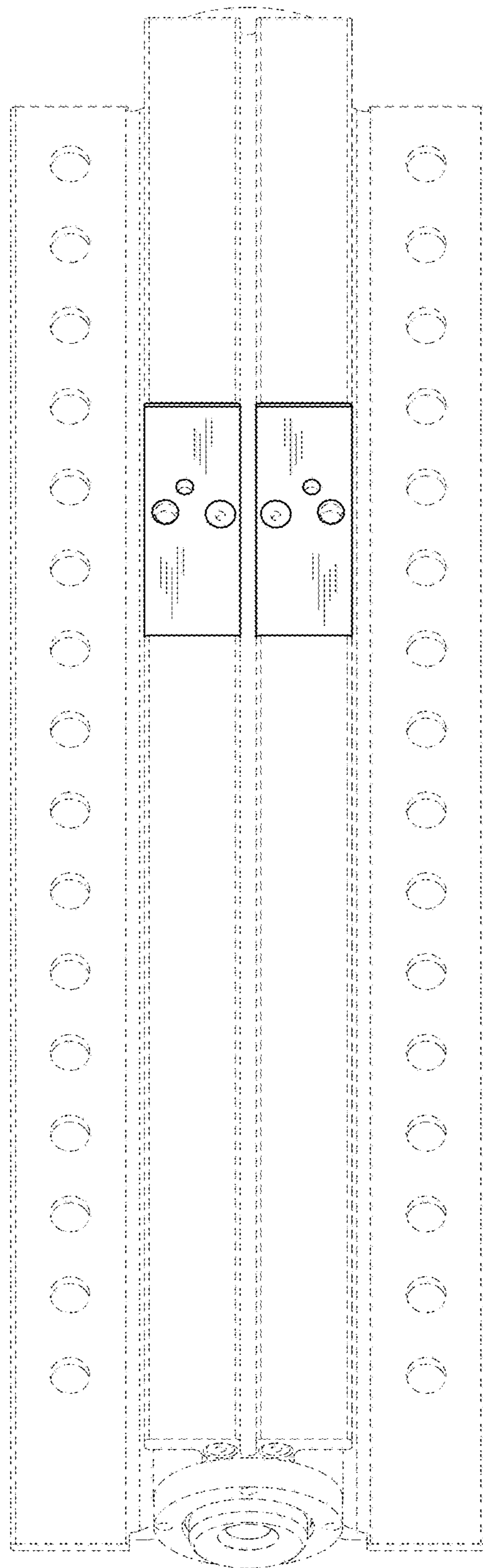


Fig. 4

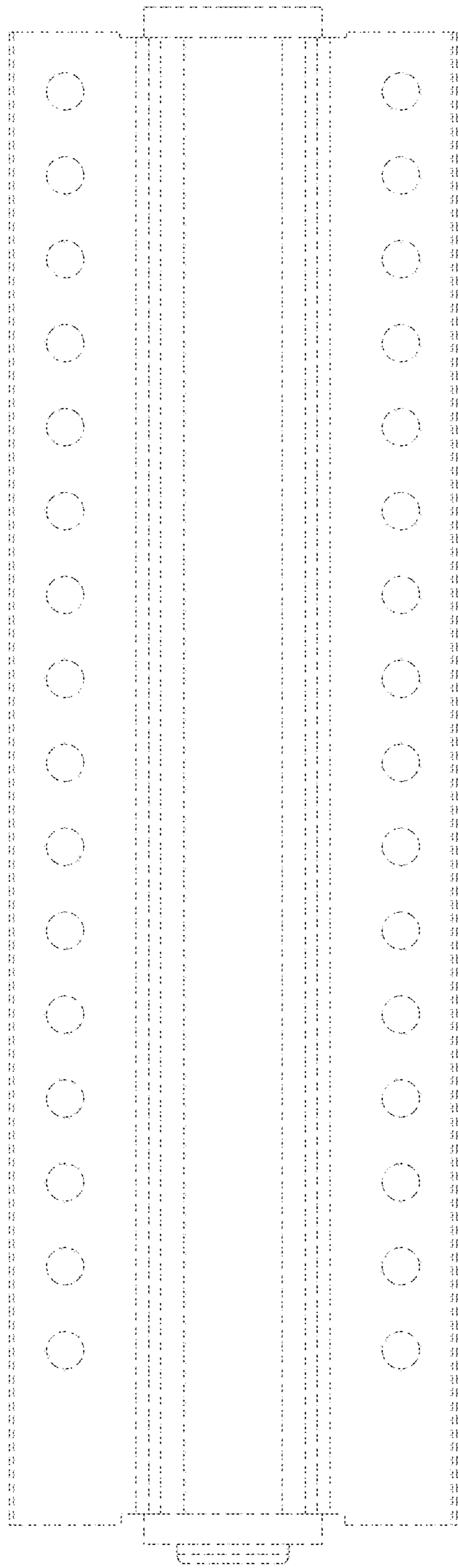


Fig. 5

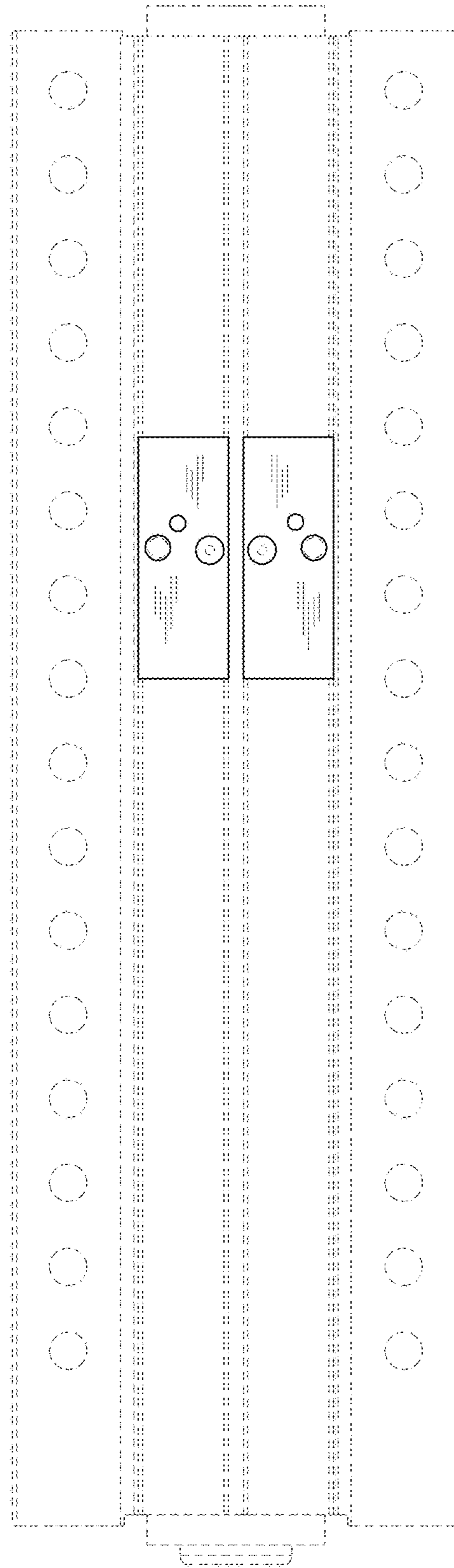


Fig. 6

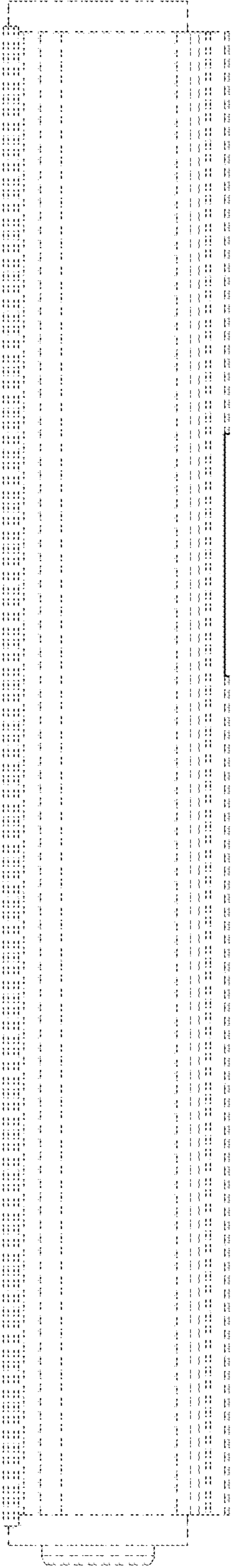


Fig. 7

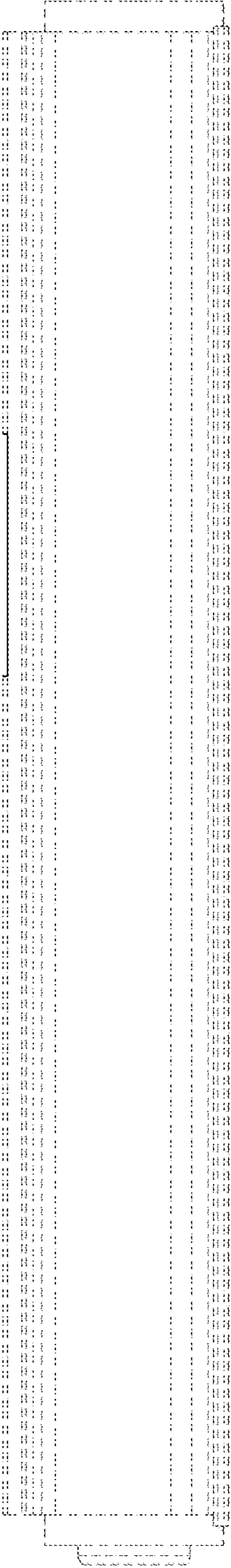


Fig. 8

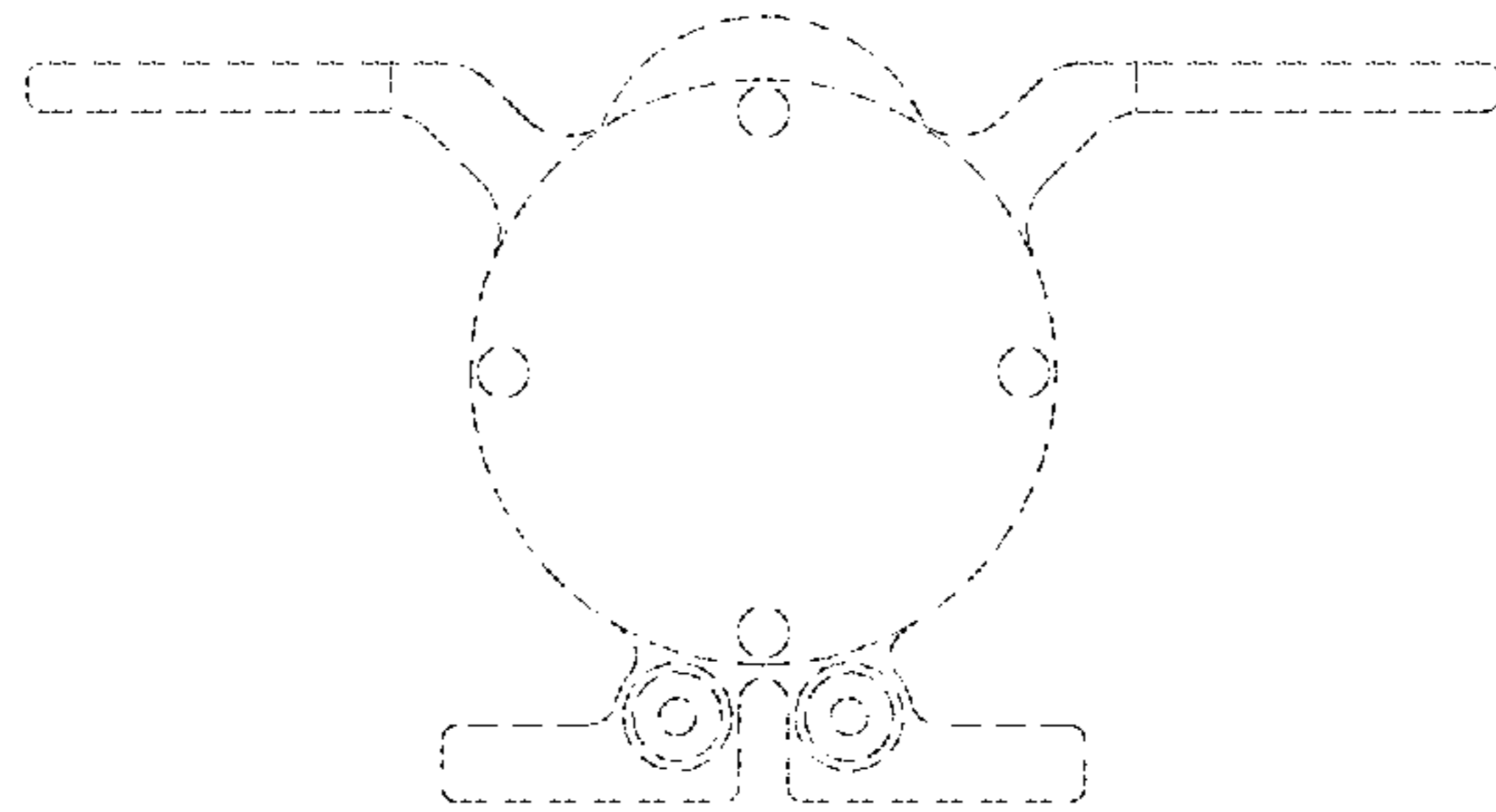


Fig. 9

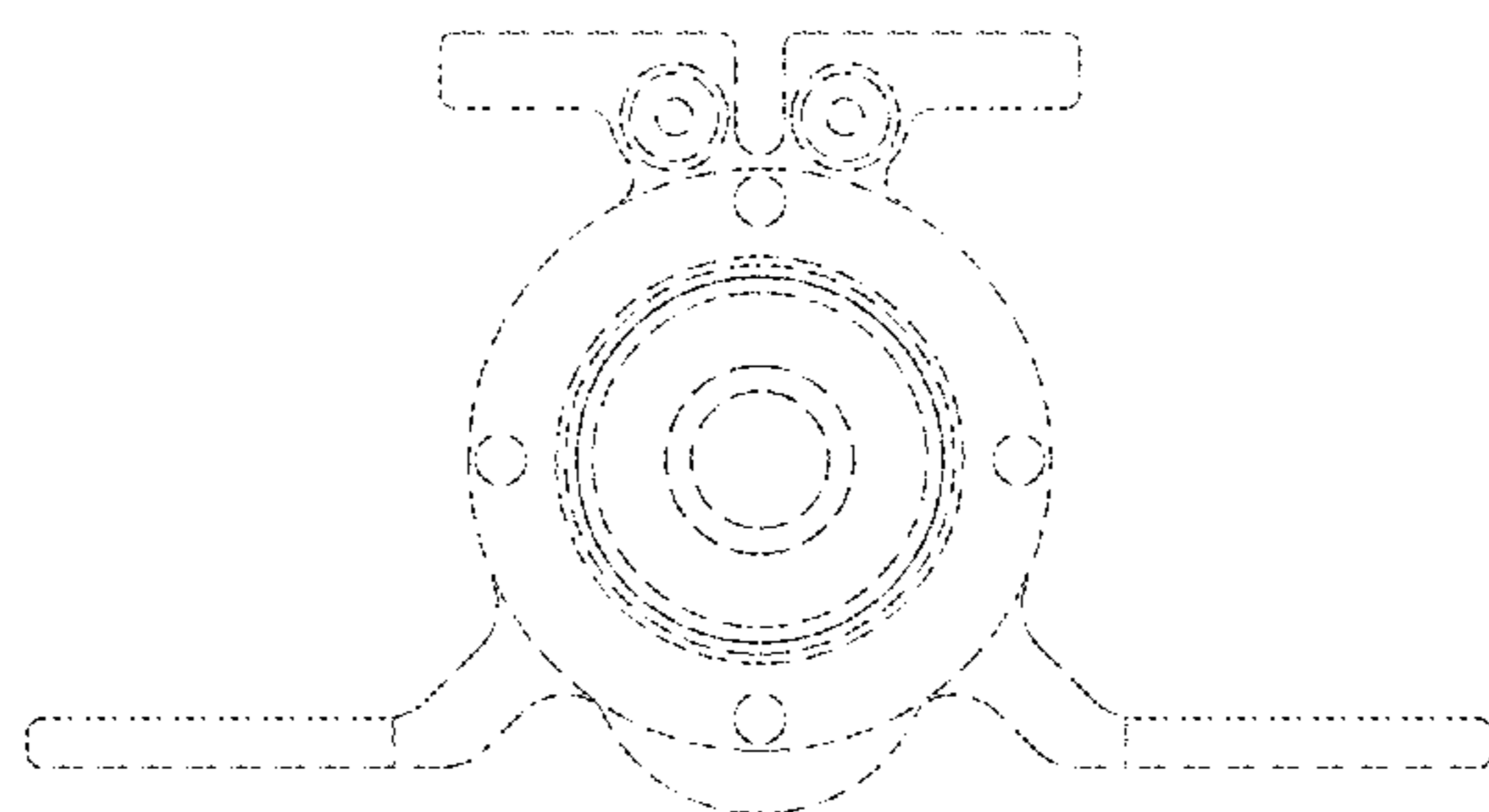


Fig. 10