



US00D783779S

(12) **United States Design Patent** (10) **Patent No.:** **US D783,779 S**  
**Evans et al.** (45) **Date of Patent:** **\*\* Apr. 11, 2017**

(54) **VALVE HOUSING CONNECTORS** 13/0402; F15B 13/044; F15B 13/0444;  
F15B 15/2861; F15B 2211/315

(71) Applicant: **Moen Incorporated**, North Olmsted, OH (US) See application file for complete search history.

(72) Inventors: **Kenneth E. Evans**, Westlake, OH (US);  
**Matthew J. Lance**, North Ridgeville, OH (US); **Sanjeev S. Moghe**, Chagrin Falls, OH (US); **Harshil Parikh**, North Olmsted, OH (US); **Angie M. Rosengarten**, Leipsic, OH (US)

(73) Assignee: **Moen Incorporated**, North Olmsted, OH (US)

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

(21) Appl. No.: **29/560,416**

(22) Filed: **Apr. 6, 2016**

**Related U.S. Application Data**

(63) Continuation of application No. 15/001,141, filed on Jan. 19, 2016, and a continuation of application No. 15/001,143, filed on Jan. 19, 2016, and a continuation of application No. 15/001,147, filed on Jan. 19, 2016.

(51) **LOC (10) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/249**

(58) **Field of Classification Search**

USPC ..... D23/233-249, 270, 271, 259; 4/305;  
D15/7, 199; 137/554, 557, 560, 882, 884,  
137/343, 625.64, 269, 271; 251/331, 219,  
251/15, 130, 129.04

CPC . E03C 1/05; E03C 1/057; E03C 1/055; E03C  
1/04; E03D 5/10; E03D 13/00; F16K  
31/02; F16K 13/06; H01F 7/081; A61F  
2250/0039; F15B 13/0401; F15B

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,572,055	A	2/1986	Schiel
4,610,424	A	9/1986	Koppers et al.
4,760,866	A	8/1988	Adler
6,732,997	B2	5/2004	Beh et al.
6,802,487	B2	10/2004	Heun et al.
6,811,141	B2	11/2004	Green
7,044,434	B2	5/2006	Brinks et al.

(Continued)

*Primary Examiner* — Cynthia Ramirez

*Assistant Examiner* — Michael Maharajh

(74) *Attorney, Agent, or Firm* — Calfee, Halter & Griswold LLP

(57) **CLAIM**

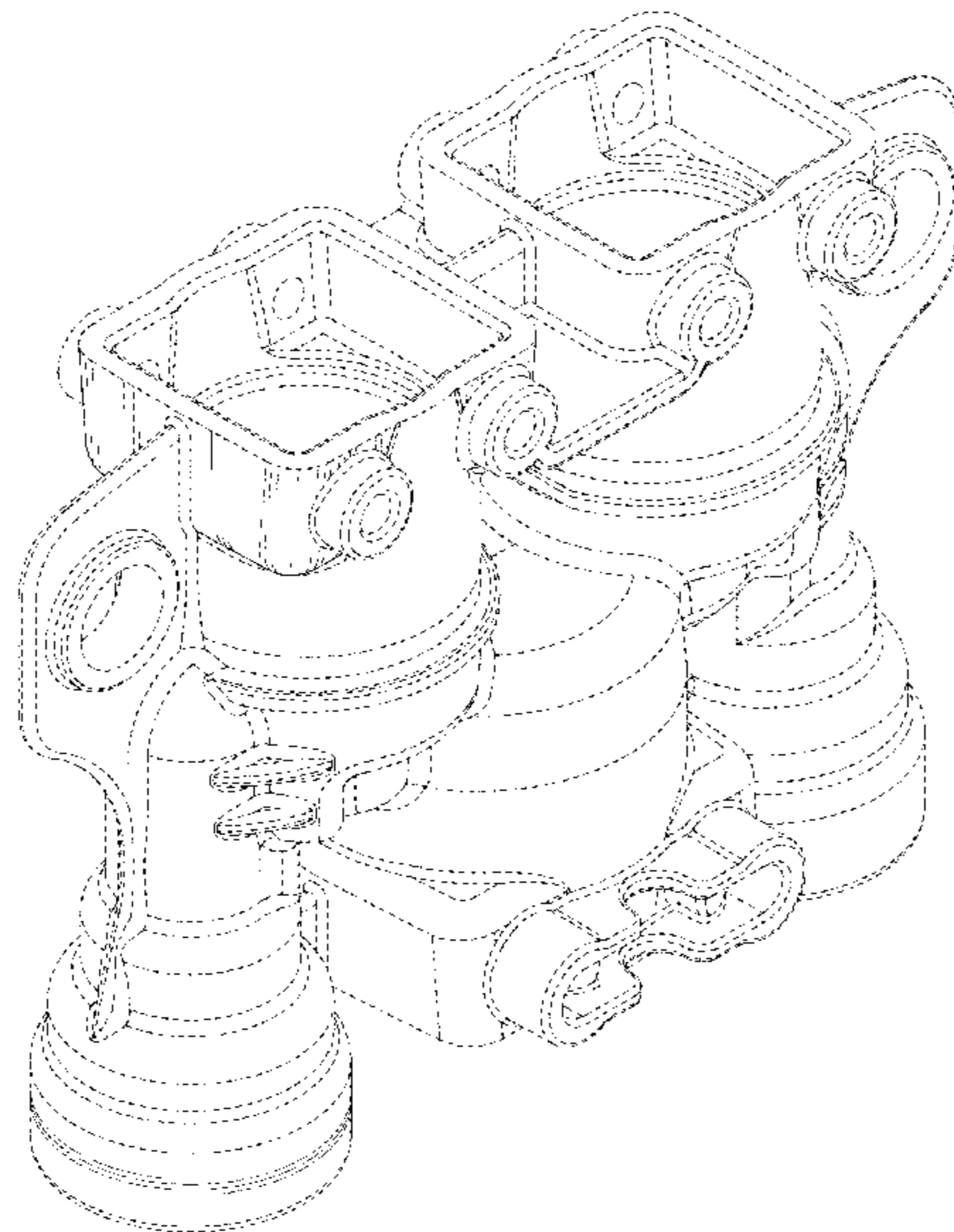
The ornamental design for valve housing connectors, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the valve housing connectors showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a left side elevational view thereof; FIG. 4 is a right side elevational view thereof; FIG. 5 is a top plan view thereof; and, FIG. 6 is a bottom plan view thereof.

The broken lines shown in the figure drawings are for the purpose of illustrating portions of the valve housing connectors and form no part of the claimed design. The broken lines immediately adjacent to the shaded areas in the figures are to define the boundaries of the claimed design and form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



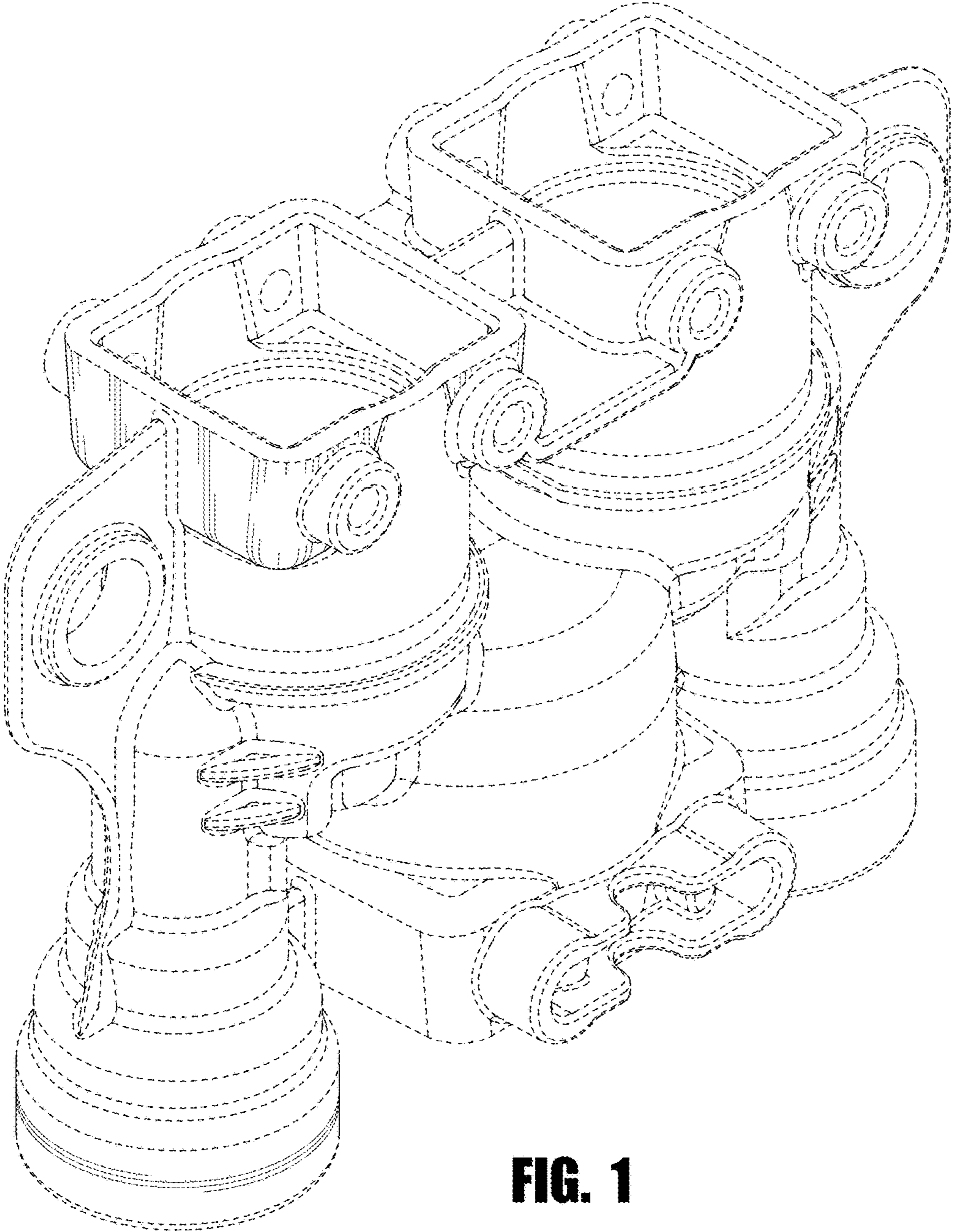
(56)

**References Cited**

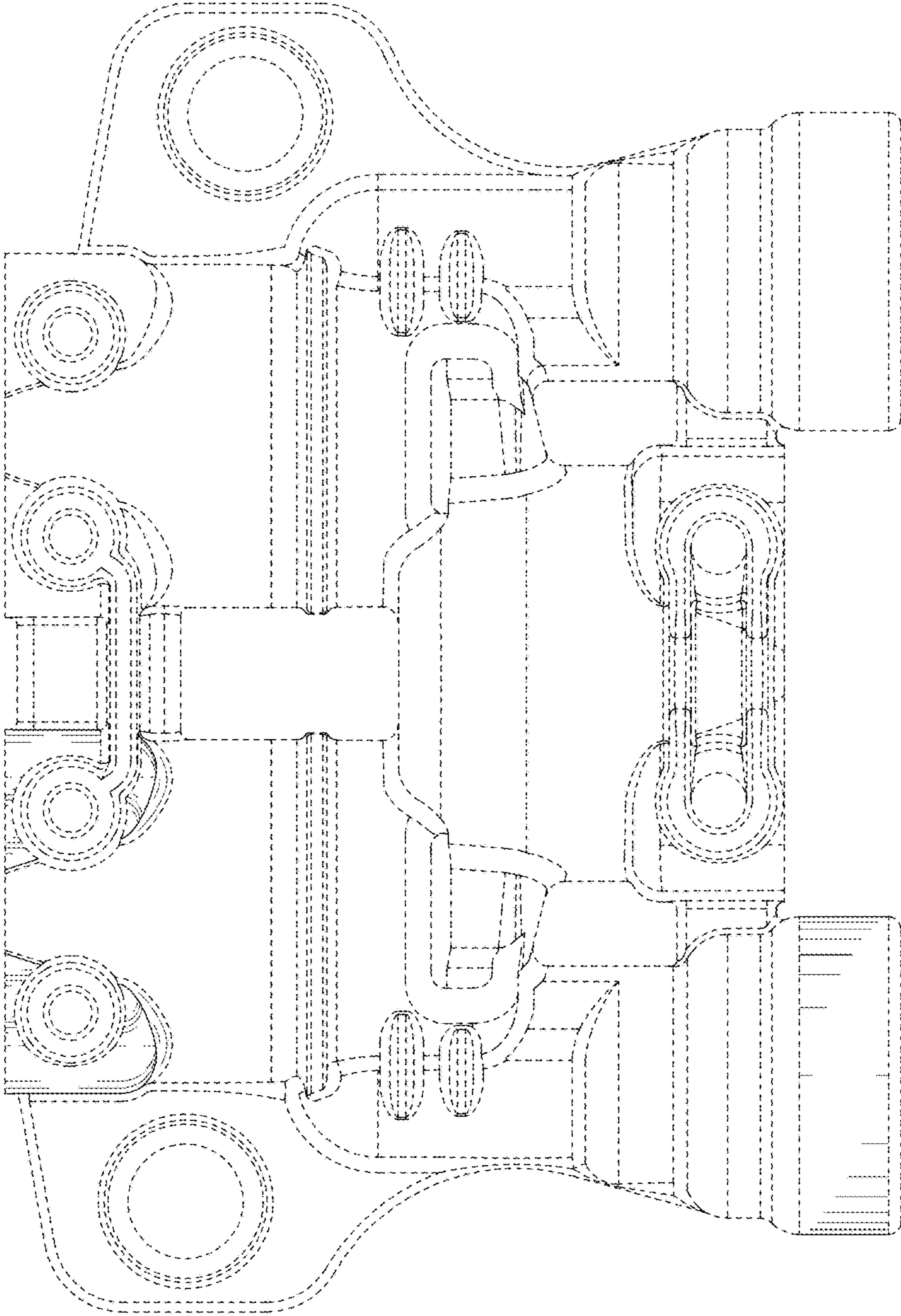
U.S. PATENT DOCUMENTS

7,537,194	B2	5/2009	Nagai	
D632,361	S *	2/2011	Bobby	..... D23/233
8,210,441	B2	7/2012	Kempf et al.	
8,267,107	B2	9/2012	Ho	
8,297,303	B2	10/2012	DeSantis et al.	
2013/0248019	A1	9/2013	Frick et al.	
2013/0248033	A1	9/2013	Parikh et al.	
2013/0248620	A1	9/2013	Evans et al.	
2016/0208465	A1 *	7/2016	Evans	..... E03C 1/0404
2016/0208467	A1 *	7/2016	Song	..... F16K 31/02
2016/0208945	A1 *	7/2016	Lance	..... E03C 1/057
2016/0208946	A1 *	7/2016	Moghe	..... F16K 31/02
2016/0208947	A1 *	7/2016	Song	..... F16K 31/02
2016/0208948	A1 *	7/2016	Wallerstorfer	..... F16K 31/02
2016/0208949	A1 *	7/2016	Wallerstorfer	..... F16K 19/006

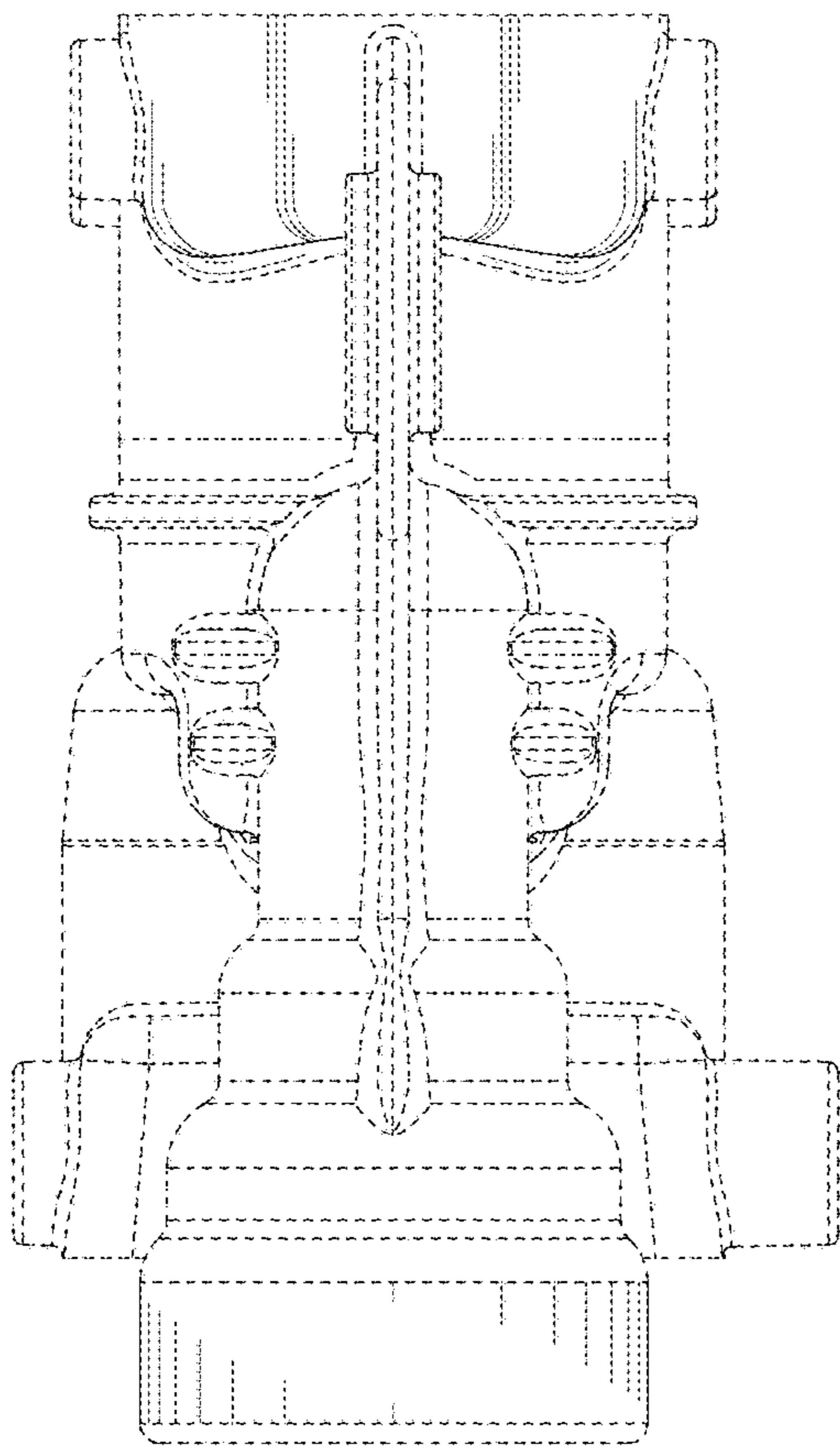
\* cited by examiner



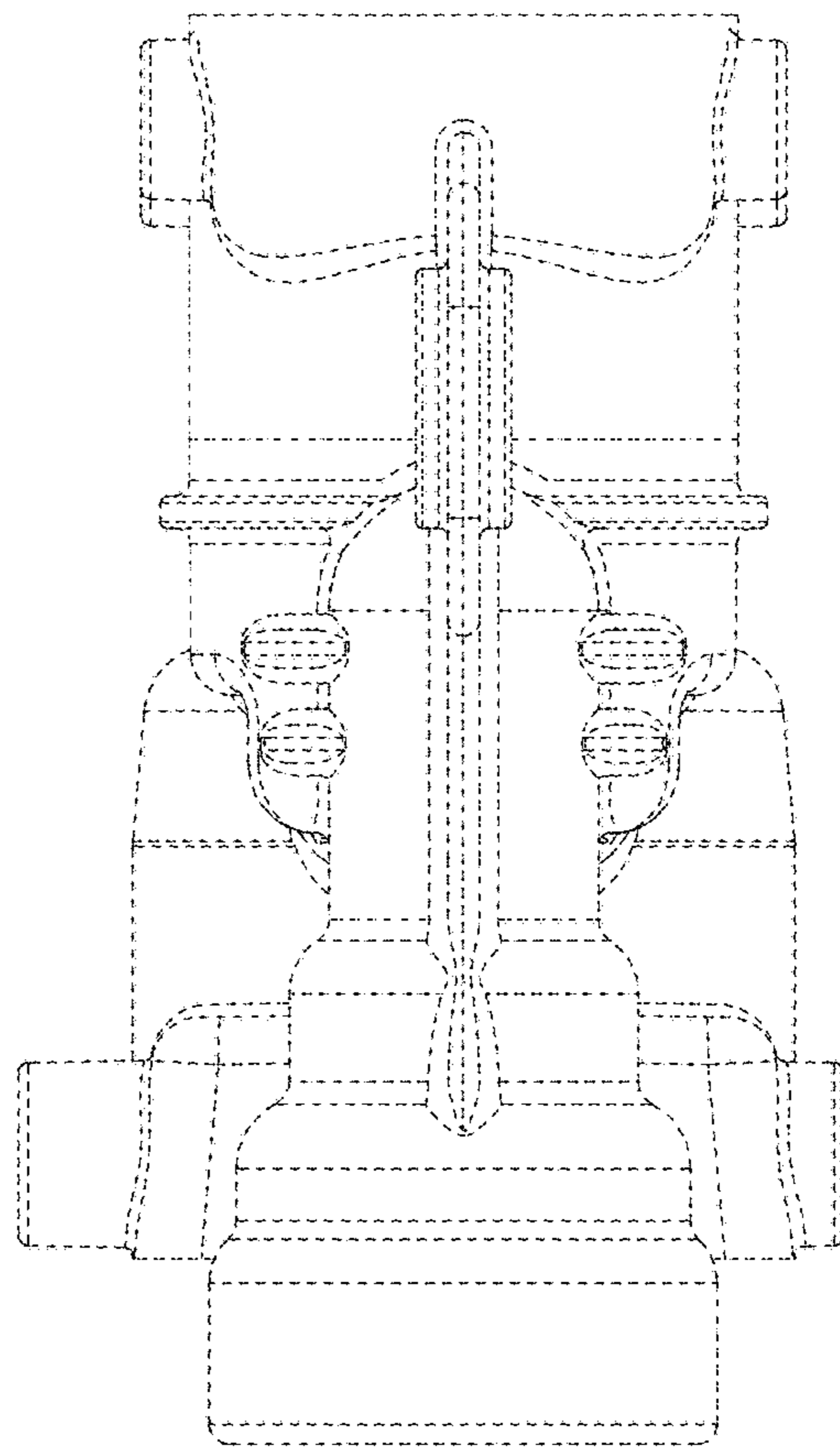
**FIG. 1**



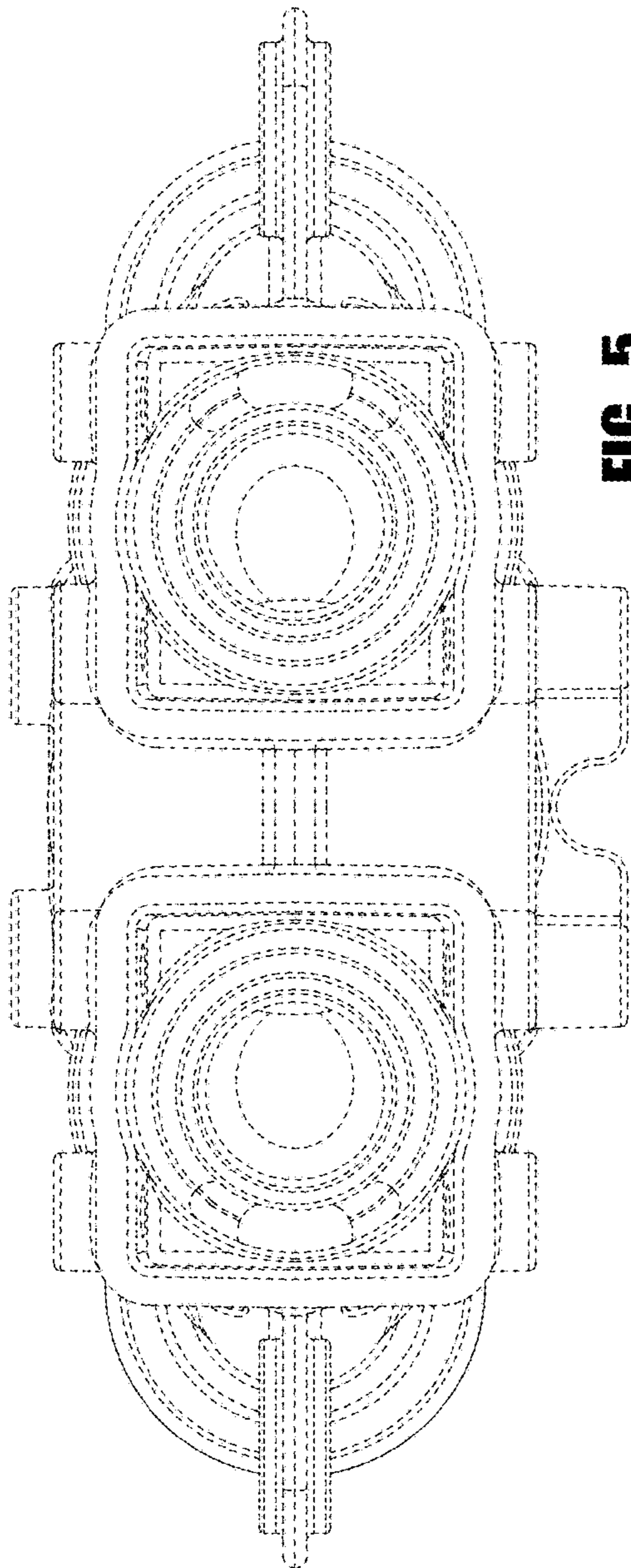
**FIG. 2**



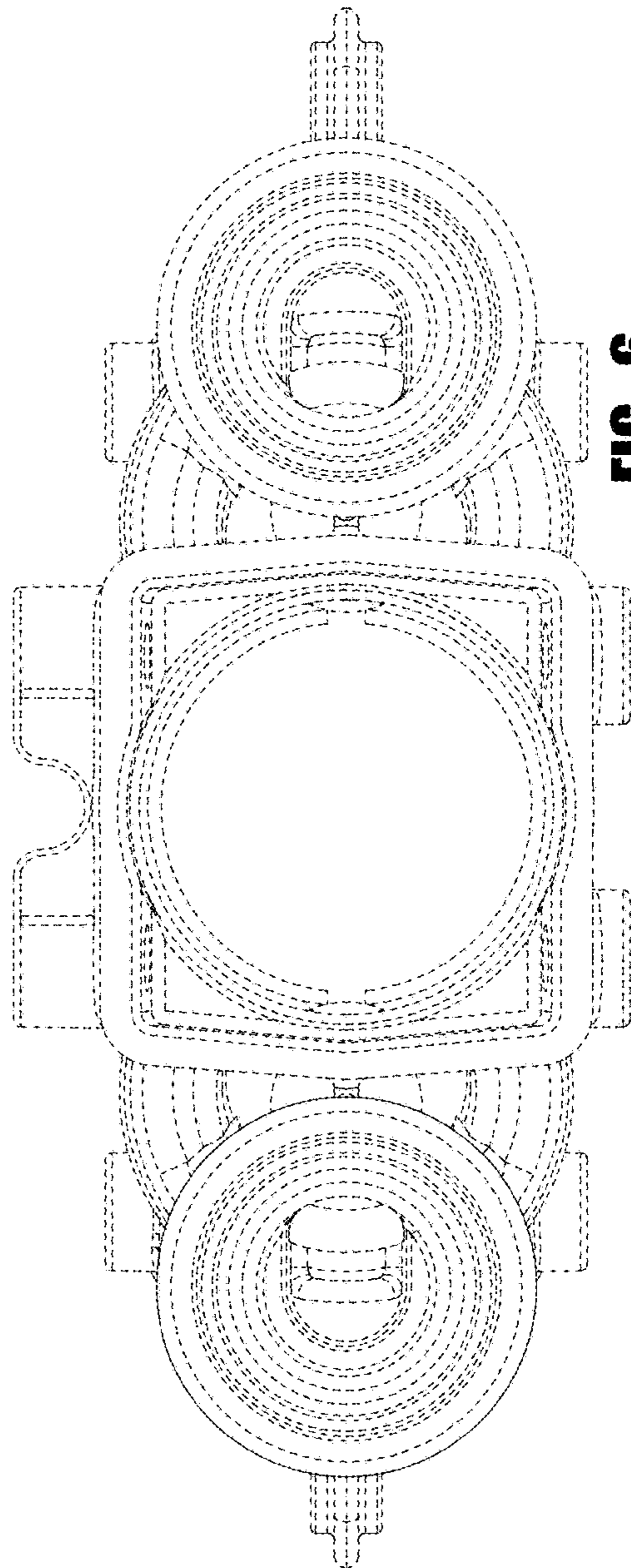
**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**