



US00D831793S

(12) **United States Design Patent** (10) **Patent No.:** **US D831,793 S**  
**Roden** (45) **Date of Patent:** **\*\* Oct. 23, 2018**

(54) **VALVE ASSEMBLY**  
(71) Applicant: **TYL, Inc.**, Fort Worth, TX (US)  
(72) Inventor: **Tripp Roden**, Keller, TX (US)  
(73) Assignee: **TYL, Inc.**, Fort Worth, TX (US)  
(\*\*) Term: **15 Years**

D697,587 S 1/2014 Nissan et al.  
D705,396 S 5/2014 Roden  
D732,143 S 6/2015 Roden  
D754,290 S 4/2016 Roden  
D794,166 S \* 8/2017 Komatsuzaki ..... D23/235  
D800,258 S \* 10/2017 Komatsuzaki ..... D23/235  
2005/0062283 A1 \* 3/2005 Hawkinson ..... E03B 3/03  
285/139.1  
2006/0022458 A1 \* 2/2006 Droste ..... F16L 23/0283  
285/206

(Continued)

(21) Appl. No.: **29/573,713**

(22) Filed: **Aug. 9, 2016**

(51) **LOC (11) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/235**

(58) **Field of Classification Search**  
USPC ..... D23/233, 249, 262, 245, 235, 236, 259,  
D23/200; 251/231; 137/592, 587, 590,  
137/614.06; 285/406, 39, 139.2, 222,  
285/149.1, 139.1, 179, 206  
CPC ..... F16L 5/06; F16L 5/08; F16L 41/086  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,543,530 A 6/1925 Stransky  
2,657,805 A 11/1953 Palcer  
2,792,120 A 5/1957 Tinker  
3,984,132 A \* 10/1976 Sarson ..... F16L 41/082  
285/222  
5,137,556 A 8/1992 Koulogeorgas  
5,230,366 A 7/1993 Marandi  
5,335,686 A 8/1994 Lsringhausen  
5,406,974 A 4/1995 Griswold  
5,433,243 A 7/1995 Griswold et al.  
D412,561 S 8/1999 Voo  
D470,222 S 2/2003 Nortier  
D479,307 S 9/2003 Beltran  
D531,697 S 11/2006 Hofmann  
D638,521 S 5/2011 Matusche  
D639,392 S 6/2011 Yamada  
D690,390 S 9/2013 Garm et al.

**OTHER PUBLICATIONS**

Neptune Chemical Feed Systems, Bulletin FDP/CFS-08, Neptune Chemical Pump Company (2008), 6 pages.

(Continued)

*Primary Examiner* — Cynthia Ramirez  
*Assistant Examiner* — Gino Colan  
(74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

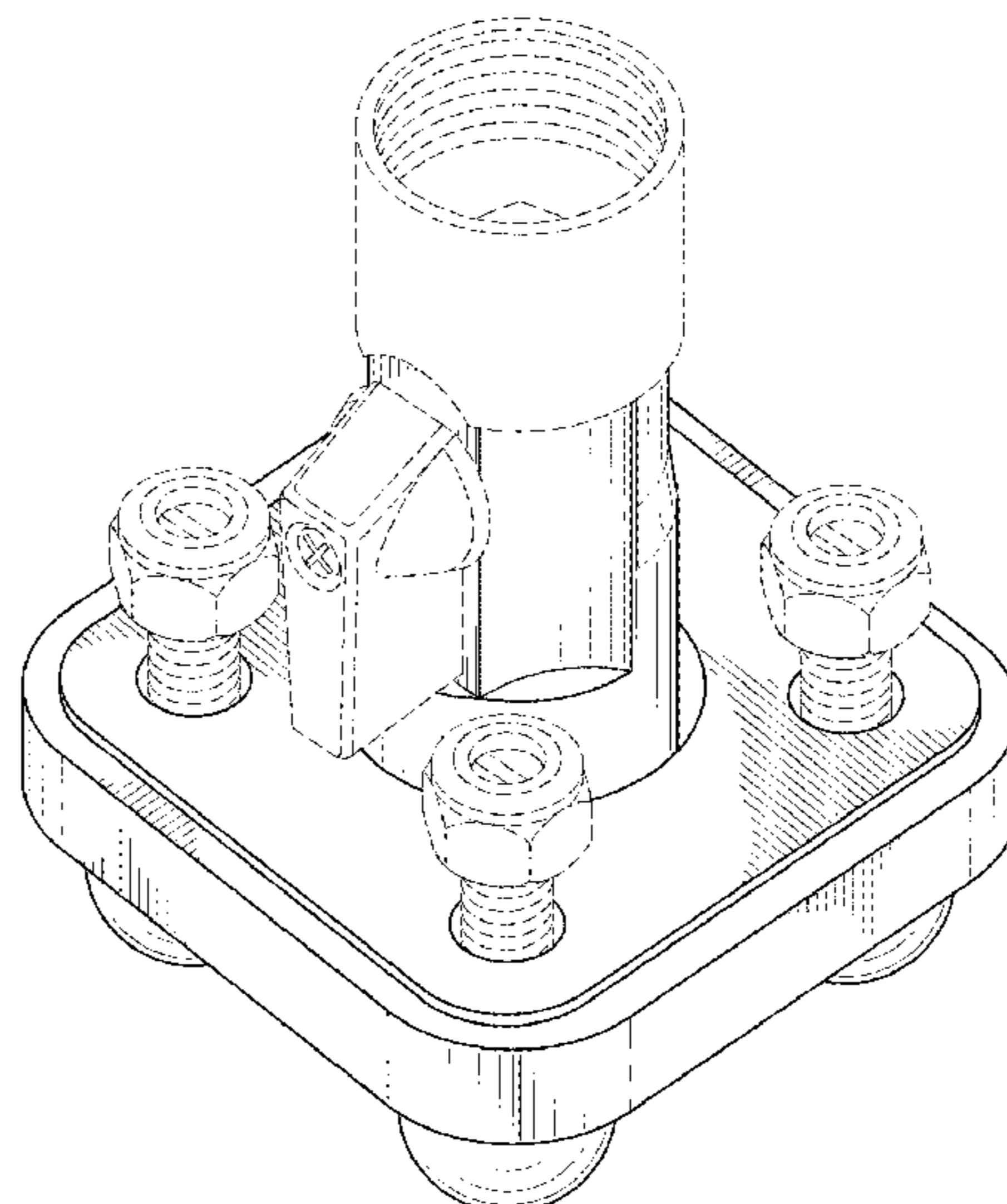
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a top front perspective view of a valve assembly showing the claimed design;  
FIG. 2 is a bottom front perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a rear view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a top view thereof; and,  
FIG. 8 is a bottom view thereof.  
The broken lines in the figures show portions of the valve assembly that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

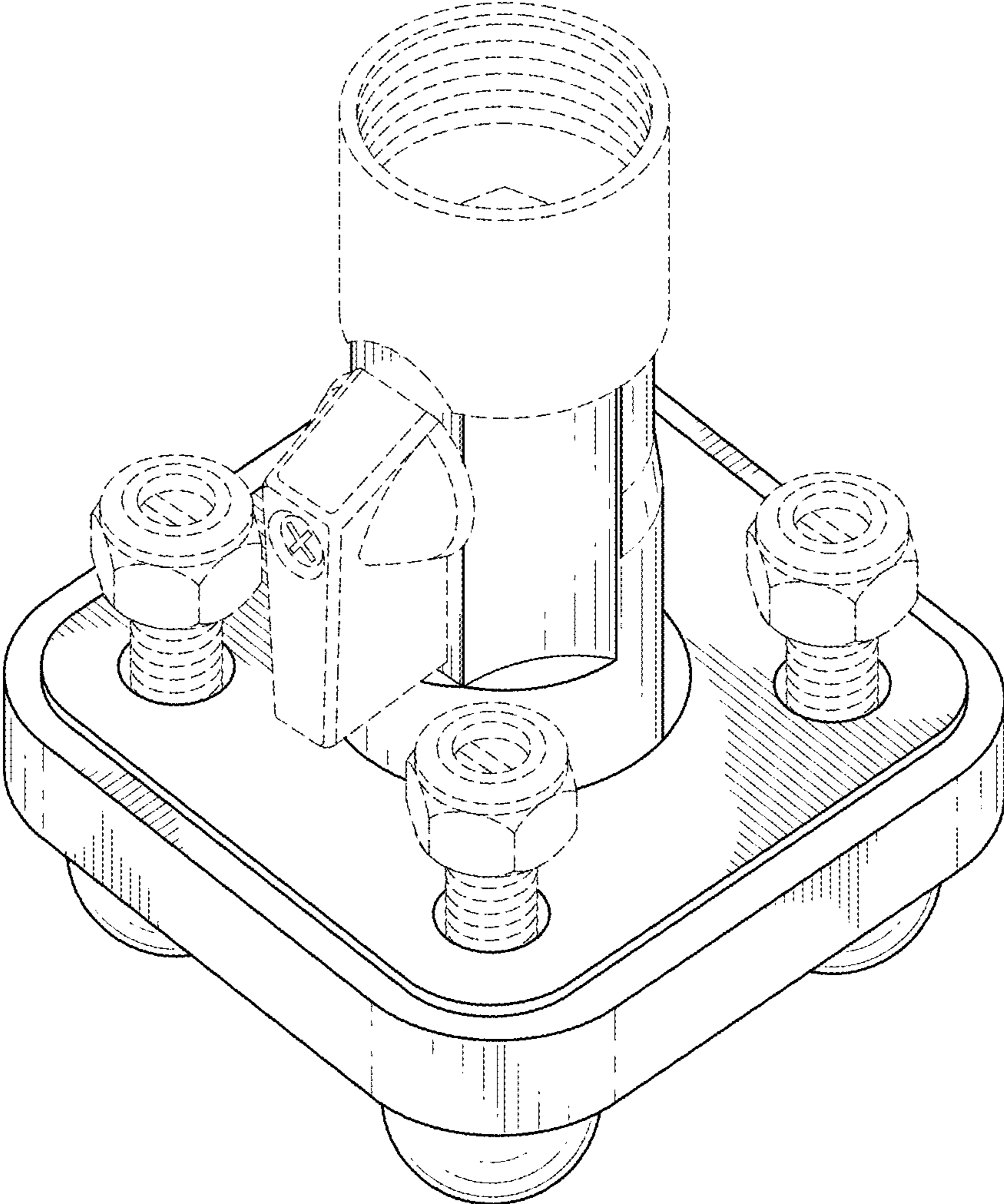
U.S. PATENT DOCUMENTS

2009/0272194 A1 11/2009 Weingarten  
2010/0018911 A1 1/2010 Vanzeeland  
2010/0108595 A1 5/2010 Heelan, Jr.  
2011/0233928 A1\* 9/2011 Olsen ..... F16L 23/024  
285/406  
2011/0233929 A1\* 9/2011 Olsen ..... F16L 23/0286  
285/406  
2014/0261848 A1 9/2014 Roden

OTHER PUBLICATIONS

Photograph of valve assemblies, dated Jul. 25, 2012, 1 page.  
2 photographs believed to show alternate views of the upper valve assembly in the Jul. 25, 2012, photograph of NPL2, 2 pages.  
Photograph of valve assembly, taken before Mar. 15, 2013, 1 page.  
Progressive Sales Inc., FloTek Brochure, copy obtained before Jan. 27, 2016, 7 pages.  
River Rock Marketing Services, Discover the Omega Difference, <http://www.riverrocksvcs.com/omega-connections/>, accessed Dec. 15, 2015, 4 pages.

\* cited by examiner



**FIG. 1**

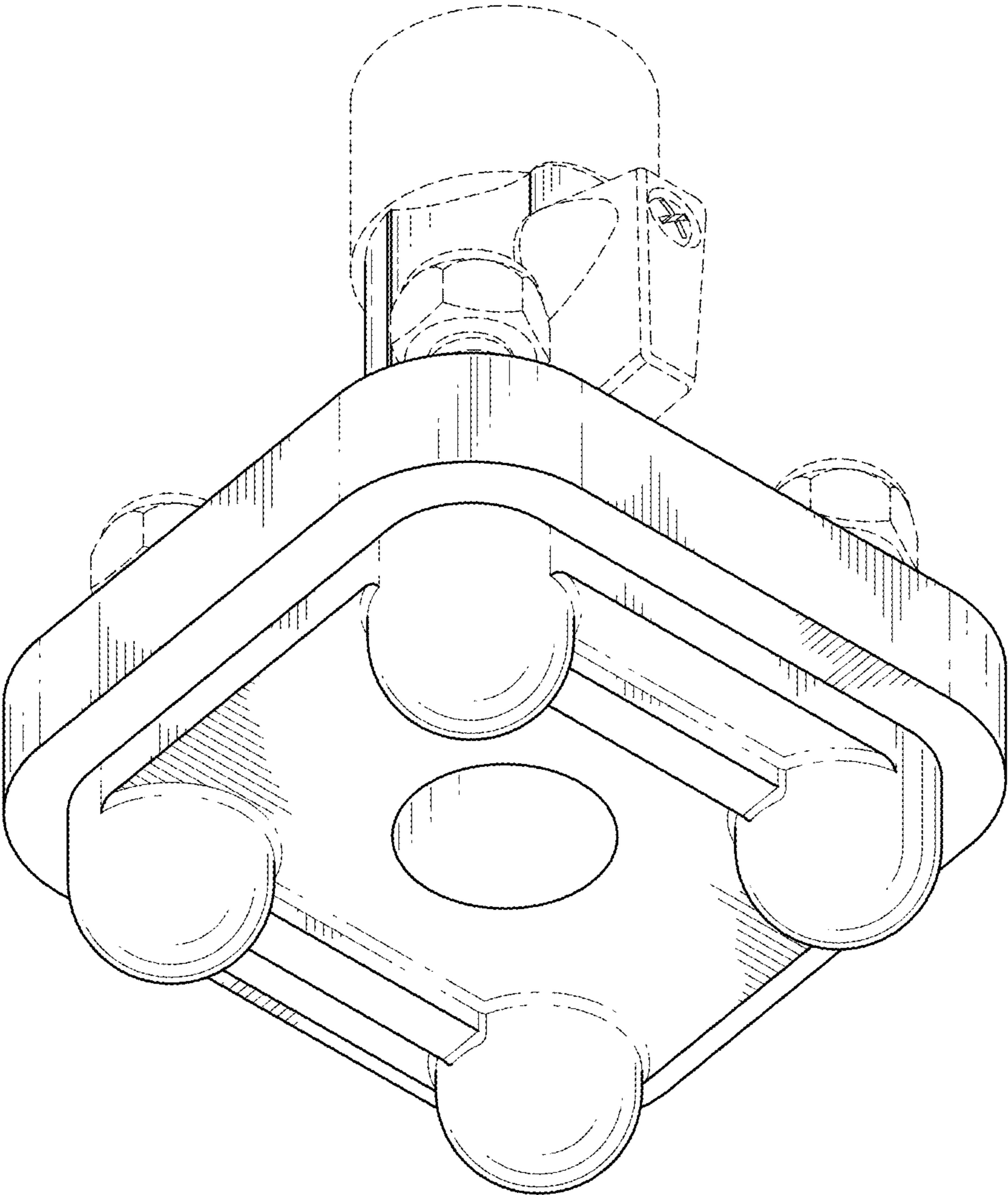
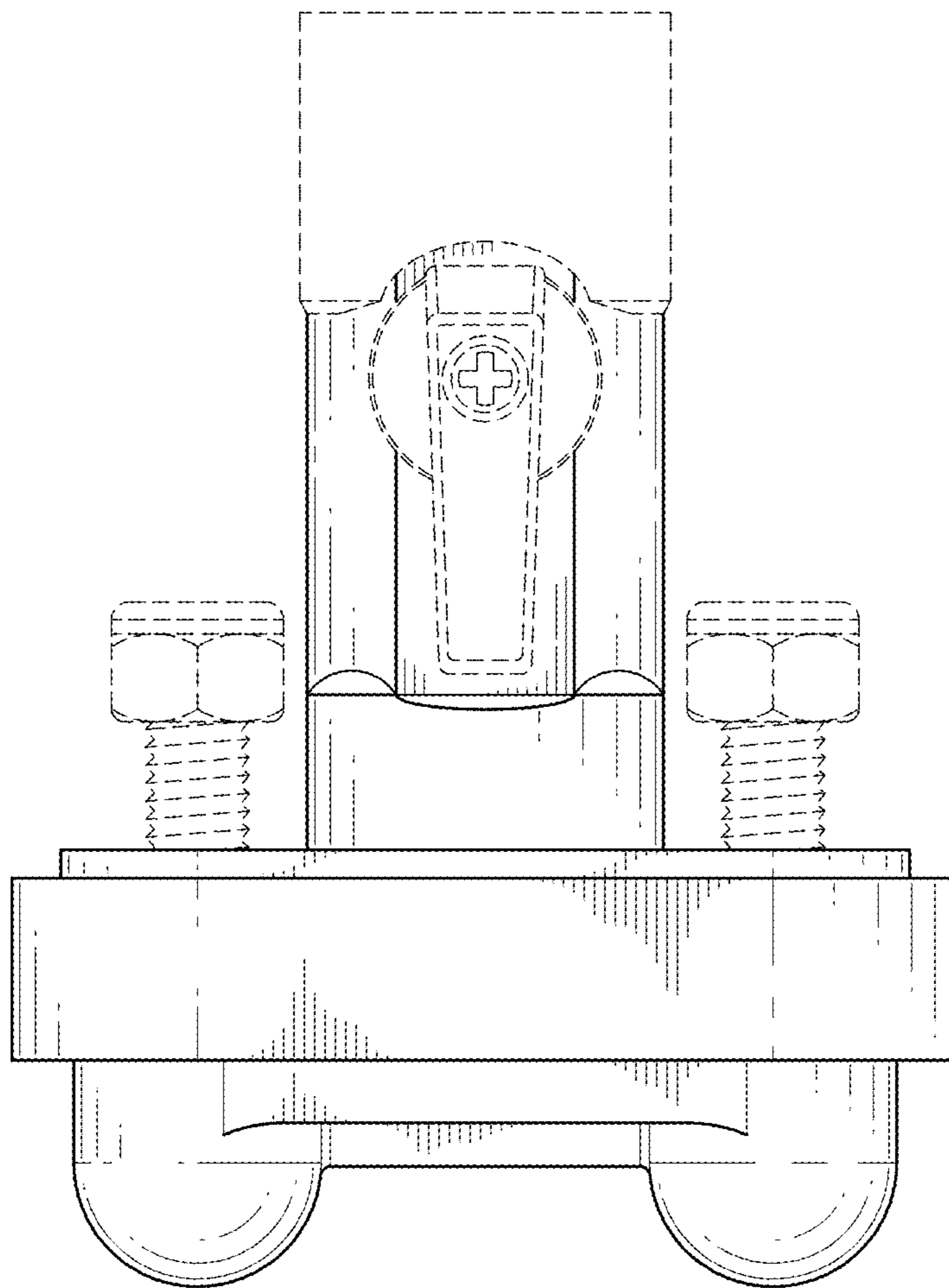


FIG. 2



**FIG. 3**

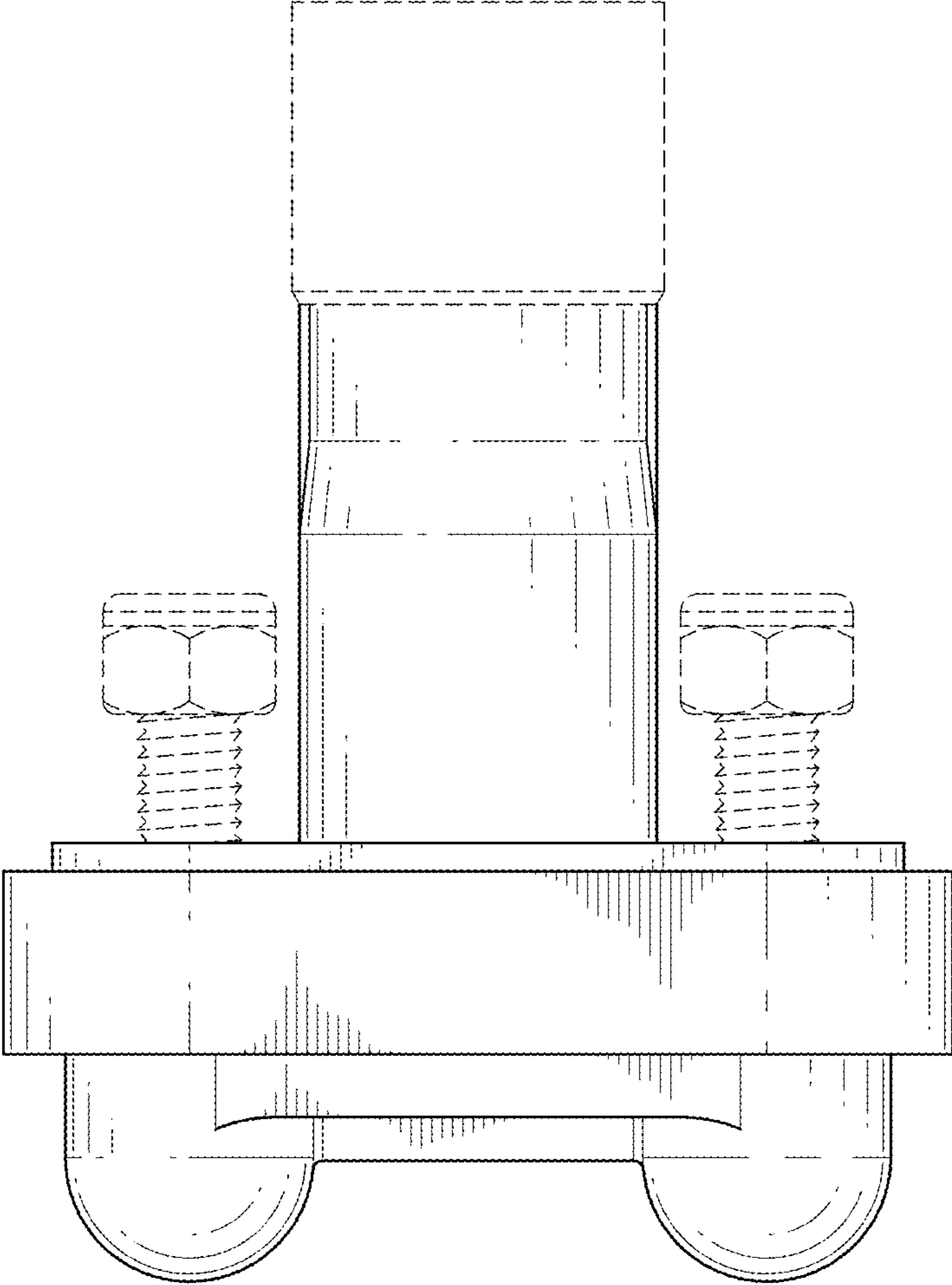


FIG.4

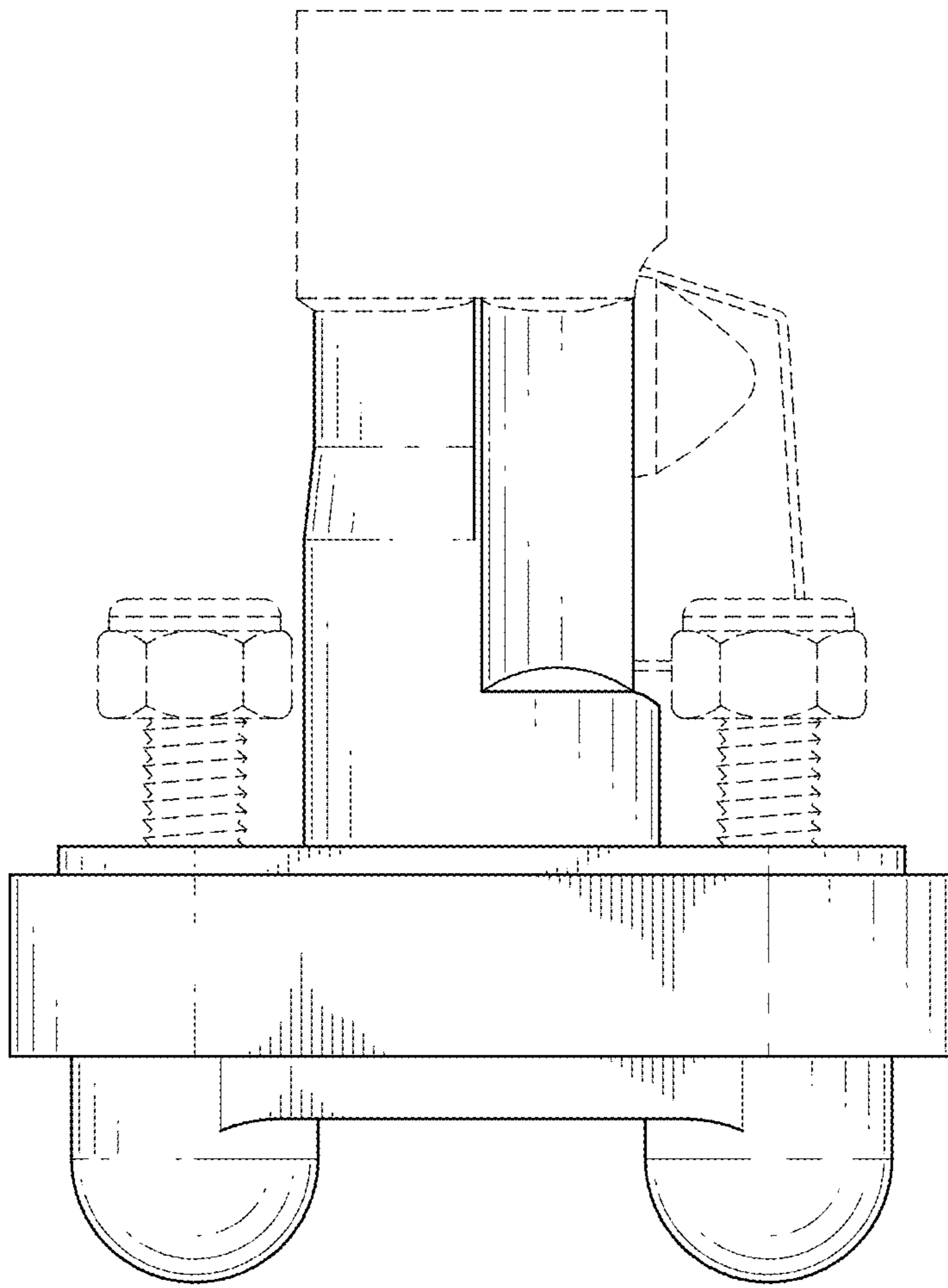


FIG. 5

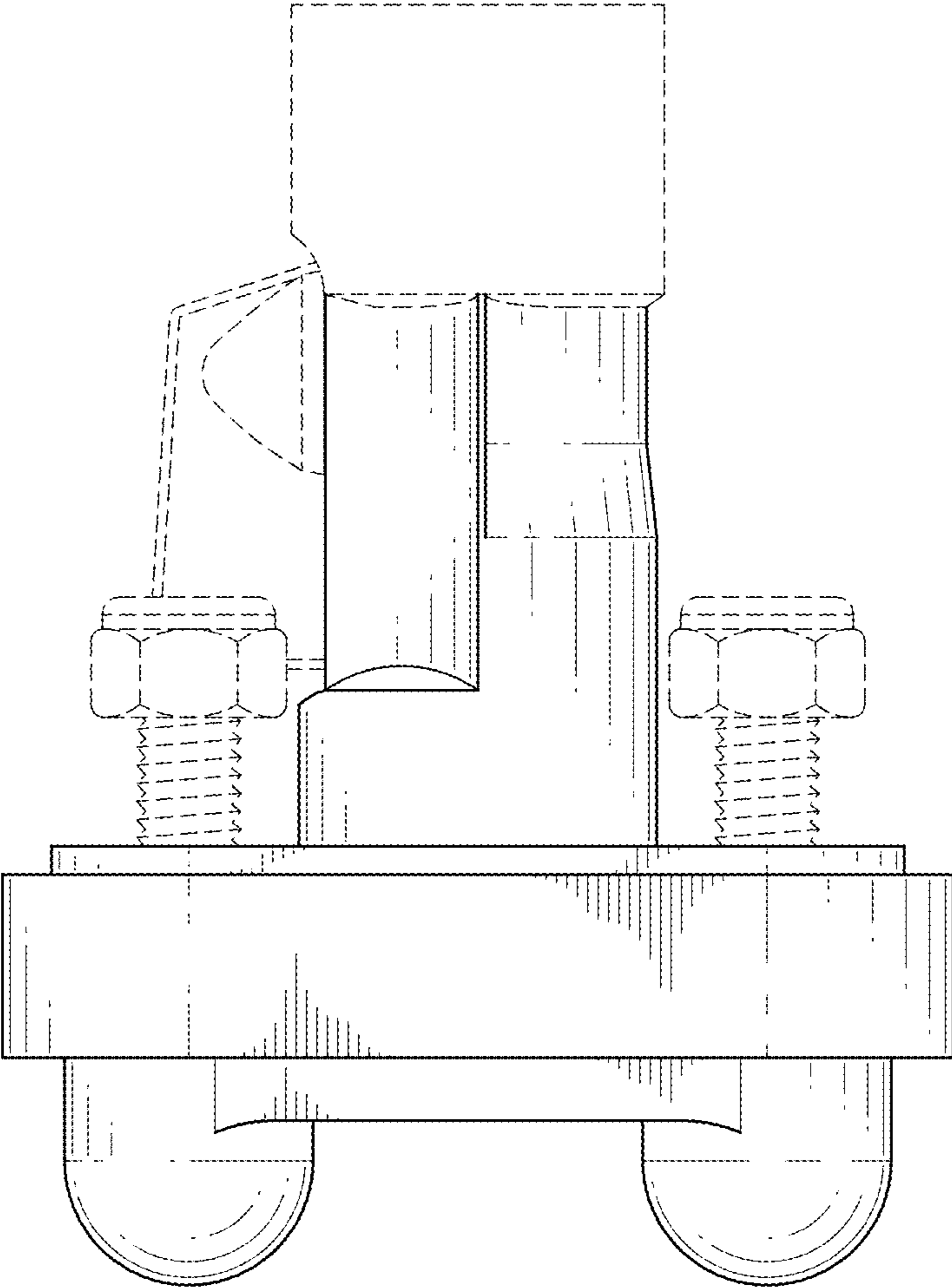


FIG.6



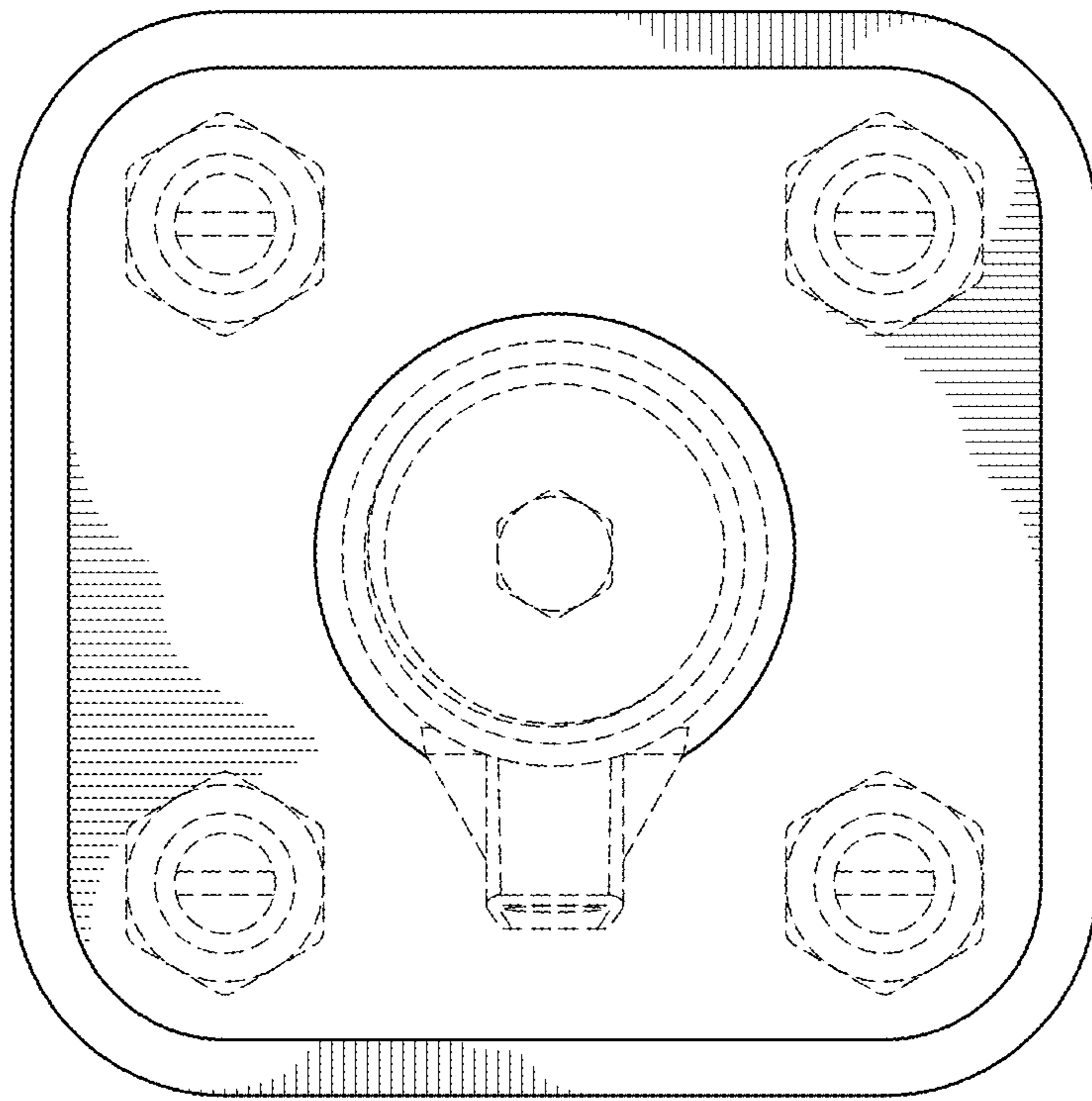
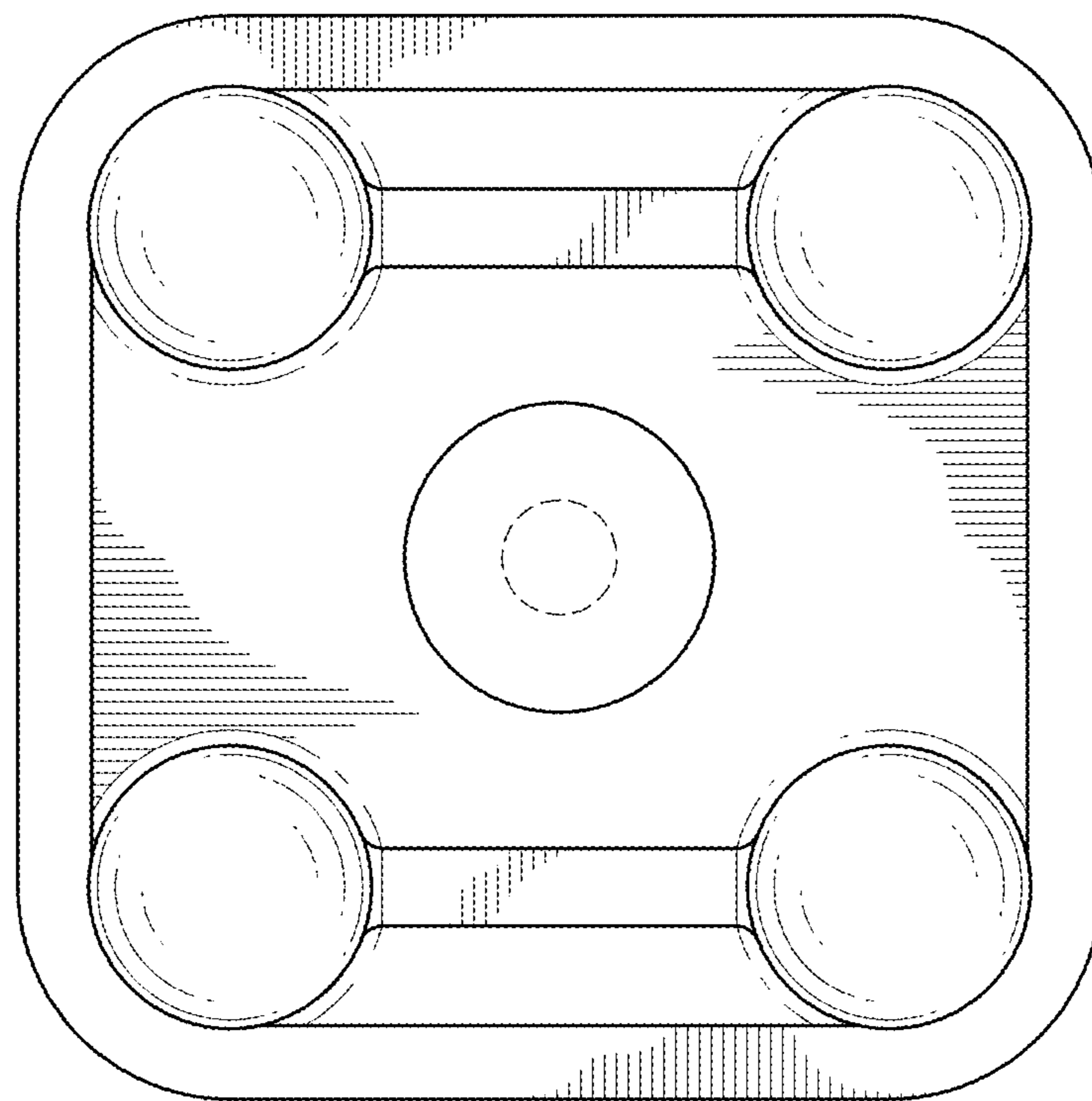


FIG. 7



**FIG. 8**