US00D770252S

(12) United States Design Patent

Colter et al.

(10) Patent No.: US D770,252 S
(45) Date of Patent: ** Nov. 1, 2016

(54) **COMBINED BUSHING EXTRACTOR WITH A RECEIVING CYLINDER**

(71) Applicants: **Carl D. Colter**, Hazlehurst, GA (US); **Daniel S. Hewett**, Hazlehurst, GA (US)

(72) Inventors: **Carl D. Colter**, Hazlehurst, GA (US); **Daniel S. Hewett**, Hazlehurst, GA (US)

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

(21) Appl. No.: **29/483,090**

(22) Filed: **Feb. 25, 2014**

(51) **LOC (10) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/51**

(58) **Field of Classification Search**
USPC D8/51, 14, 59; D15/138, 143; 29/244, 29/252, 263, 264, 265, 426.5, 266, 269, 29/270, 276
CPC Y10T 29/49945; Y10T 29/53852; B25B 27/28; B25B 27/062
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,359,432 A * 11/1920 Riggs B25B 27/062 29/262
1,972,455 A * 9/1934 Miller B25B 27/06 29/263
2,013,923 A * 9/1935 Naccarato B25B 27/18 29/263
2,292,739 A * 8/1942 Bradbury B25B 27/023 29/265
4,711,011 A 12/1987 Nugier

(Continued)

OTHER PUBLICATIONS

Truck Front Leaf Spring and Bushing Service Set http://www.otctools.com/products/truck_front_leaf_spring_pin_bushing-service (Jun. 21, 2010).

(Continued)

Primary Examiner — Ian Simmons
Assistant Examiner — Harold Blackwell, II
(74) *Attorney, Agent, or Firm* — Montgomery Patent & Design LLC; Robert C. Montgomery

(57) **CLAIM**

The ornamental design for a combined bushing extractor with a receiving cylinder, as shown and described.

DESCRIPTION

FIG. **1** is a top front-right hand side perspective view of a bushing extractor showing a receiving cylinder portion in assembly with a rail guide assemblage portion;

FIG. **2** is a top front-right hand side perspective view of the rail guide assemblage portion without the cylinder portion;

FIG. **3** is a bottom rear-left hand side perspective view of FIG. **2**;

FIG. **4** is a top rear-left hand side perspective view of FIG. **2**;

FIG. **5** is a bottom front-right hand side perspective view of FIG. **2**;

FIG. **6** is a bottom front-left hand side perspective view of FIG. **2**;

FIG. **7** is a front view of FIG. **2**;

FIG. **8** is a rear view of FIG. **2**;

FIG. **9** is a left-hand side view of FIG. **2**, wherein a right-hand side view is a mirror image of the left-hand side view;

FIG. **10** is a top view of FIG. **2**;

FIG. **11** is a bottom view of FIG. **2**;

FIG. **12** is a perspective view of the receiving cylinder portion;

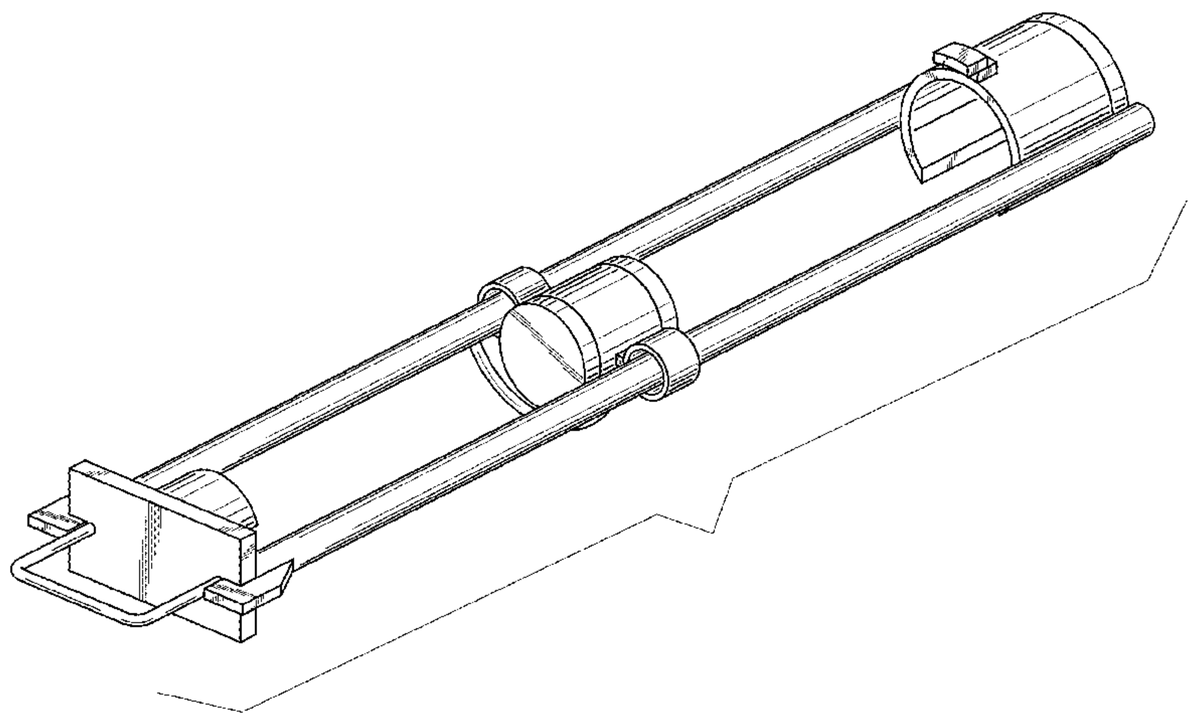
FIG. **13** is a front view of FIG. **12**;

FIG. **14** is a rear view of FIG. **12**;

FIG. **15** is a left-hand side view of FIG. **12**, wherein a right-hand side view is a mirror image of the left-hand side view; and,

FIG. **16** is a top view of FIG. **12**, wherein a bottom view is a mirror image of the top view.

1 Claim, 13 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

5,025,542	A	6/1991	Jacks	
5,400,499	A	3/1995	Tsukida et al.	
6,415,492	B1	7/2002	Jamison	
7,191,504	B1	3/2007	Charron	
9,120,215	B2 *	9/2015	Muenchrath	B25B 27/28
2013/0074306	A1 *	3/2013	Muenchrath	B25B 27/28 29/426.5

OTHER PUBLICATIONS

OTC Rear Suspension Bushing Tool http://www.grainger.com/Grainger/OTC-Rear-Suspension-Bushing-Tool-39E932?cm_mmc=CSE:Shopping-__-Fleet%20and%20Vehicle%20Maintenance-__-Automotive%20Mechanical-__-39E932&srccode=cii_13736960&cpncode=31-203509700-2 (Dec. 6, 2012).

* cited by examiner

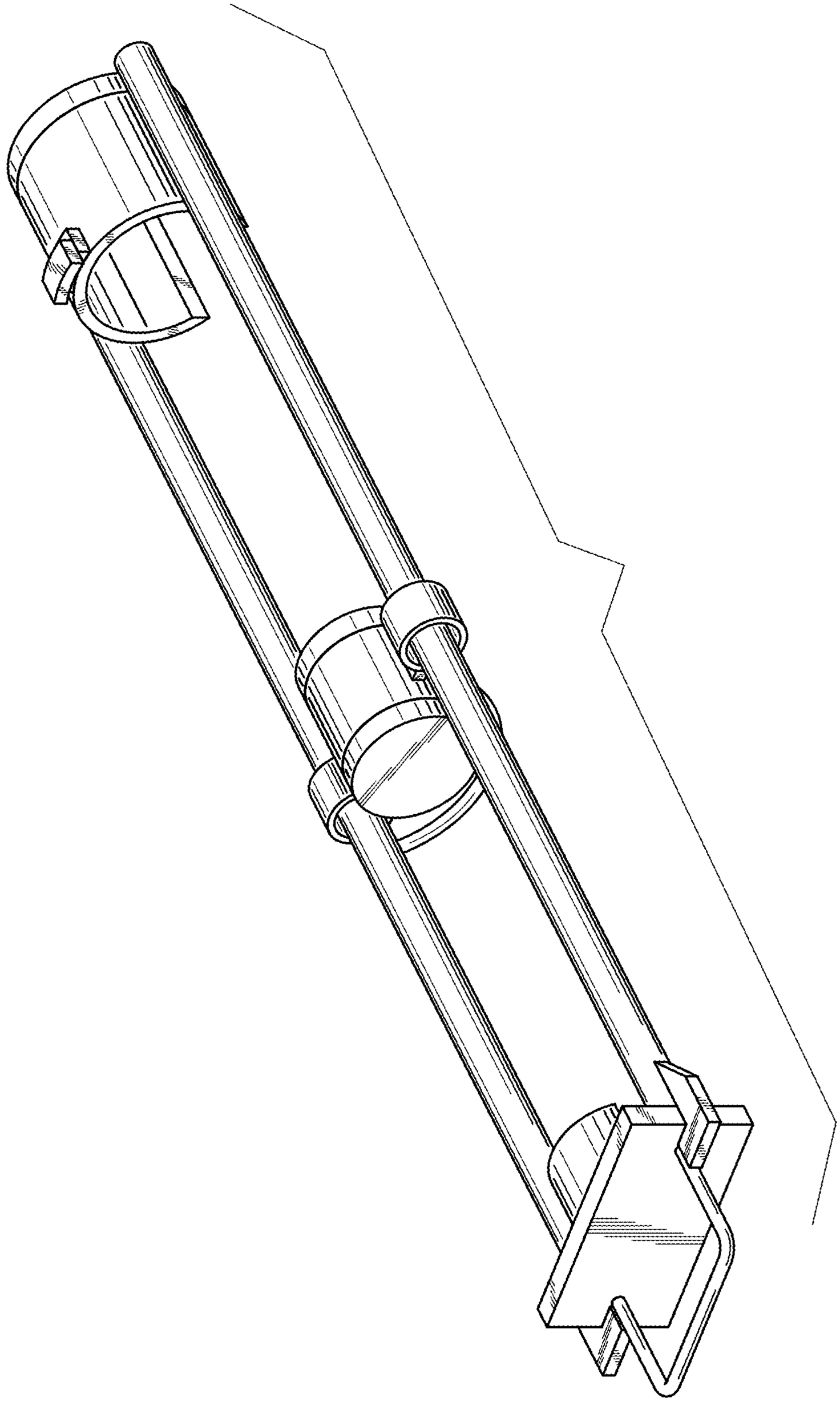


Fig. 1

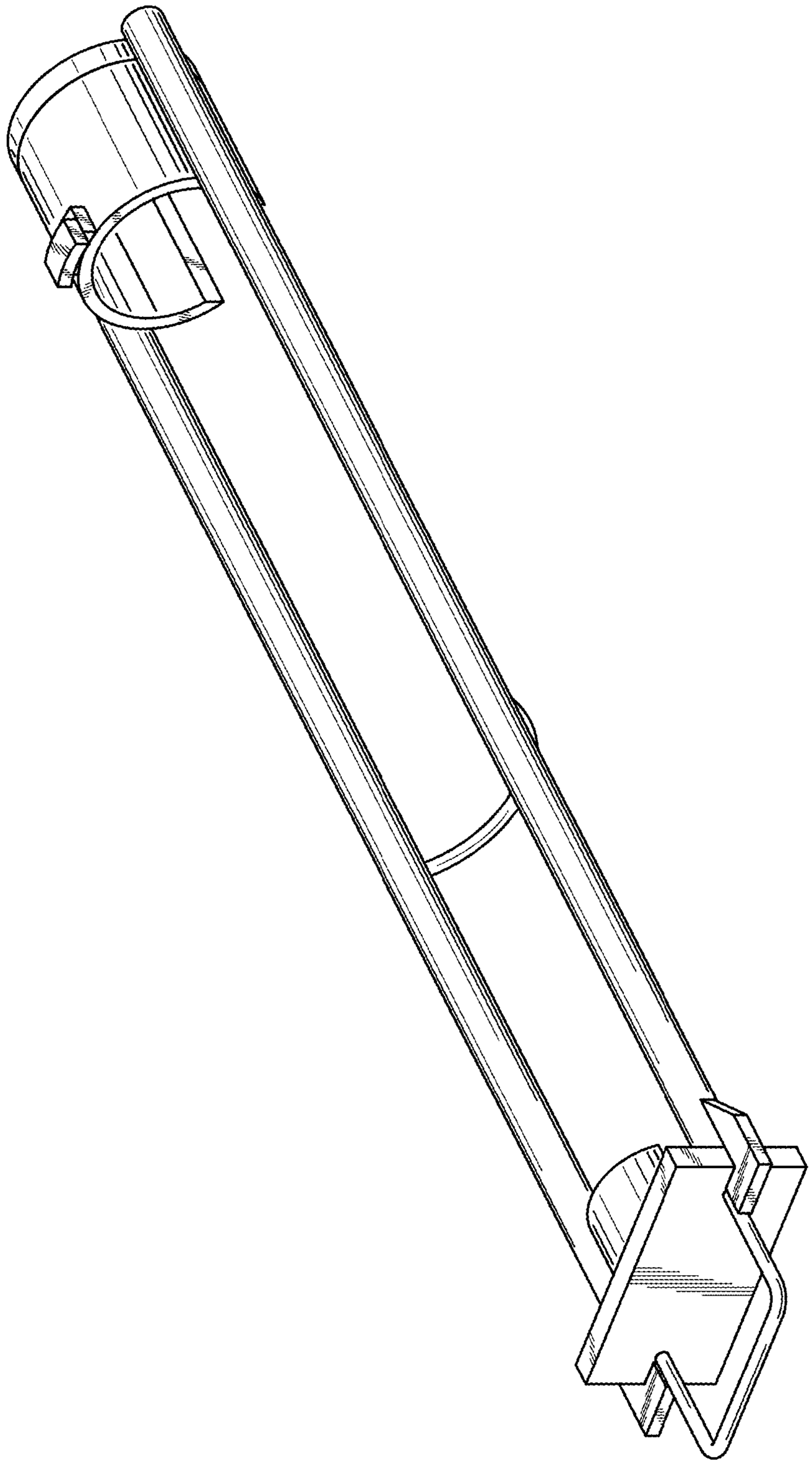


Fig. 2

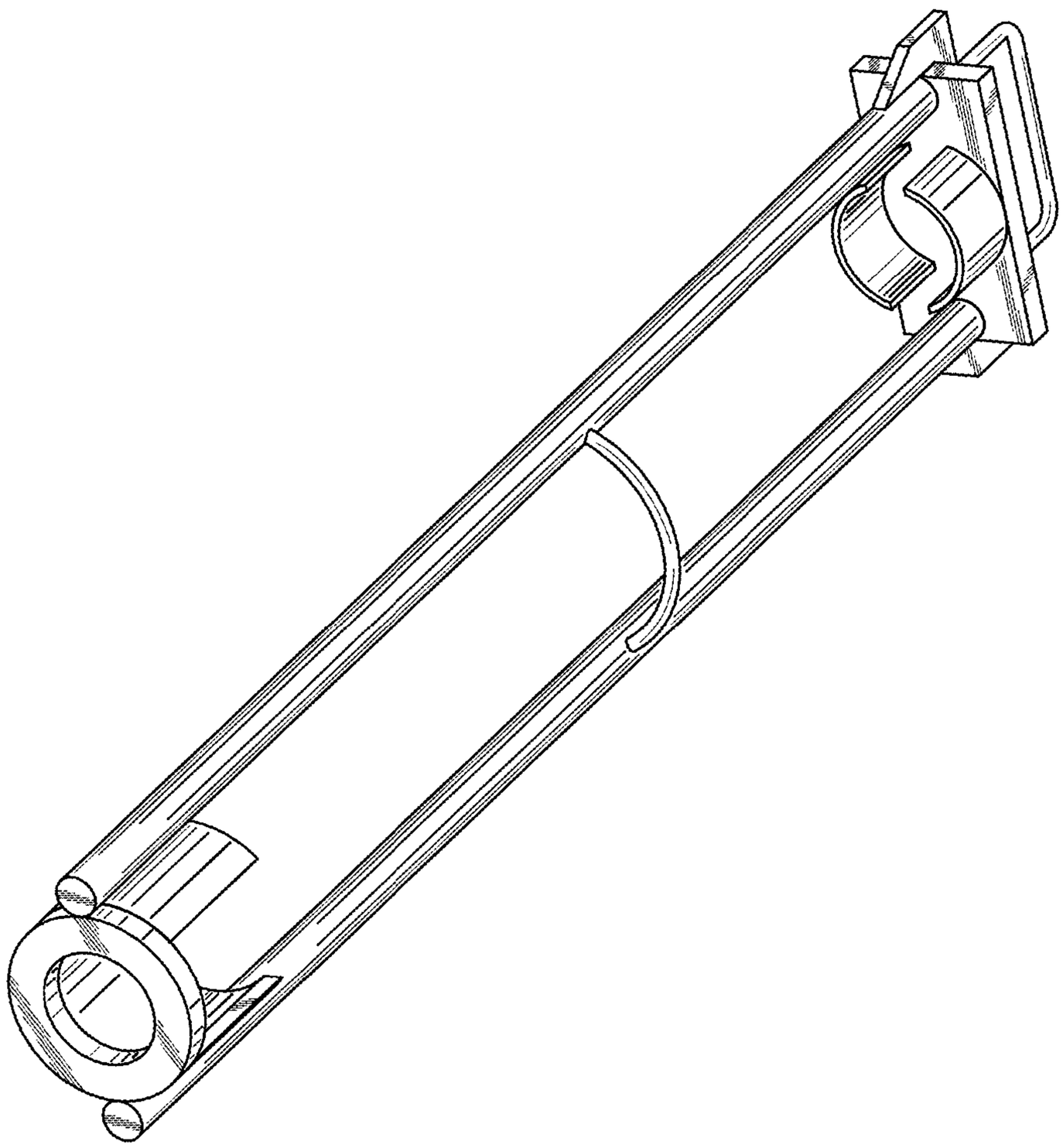


Fig. 3

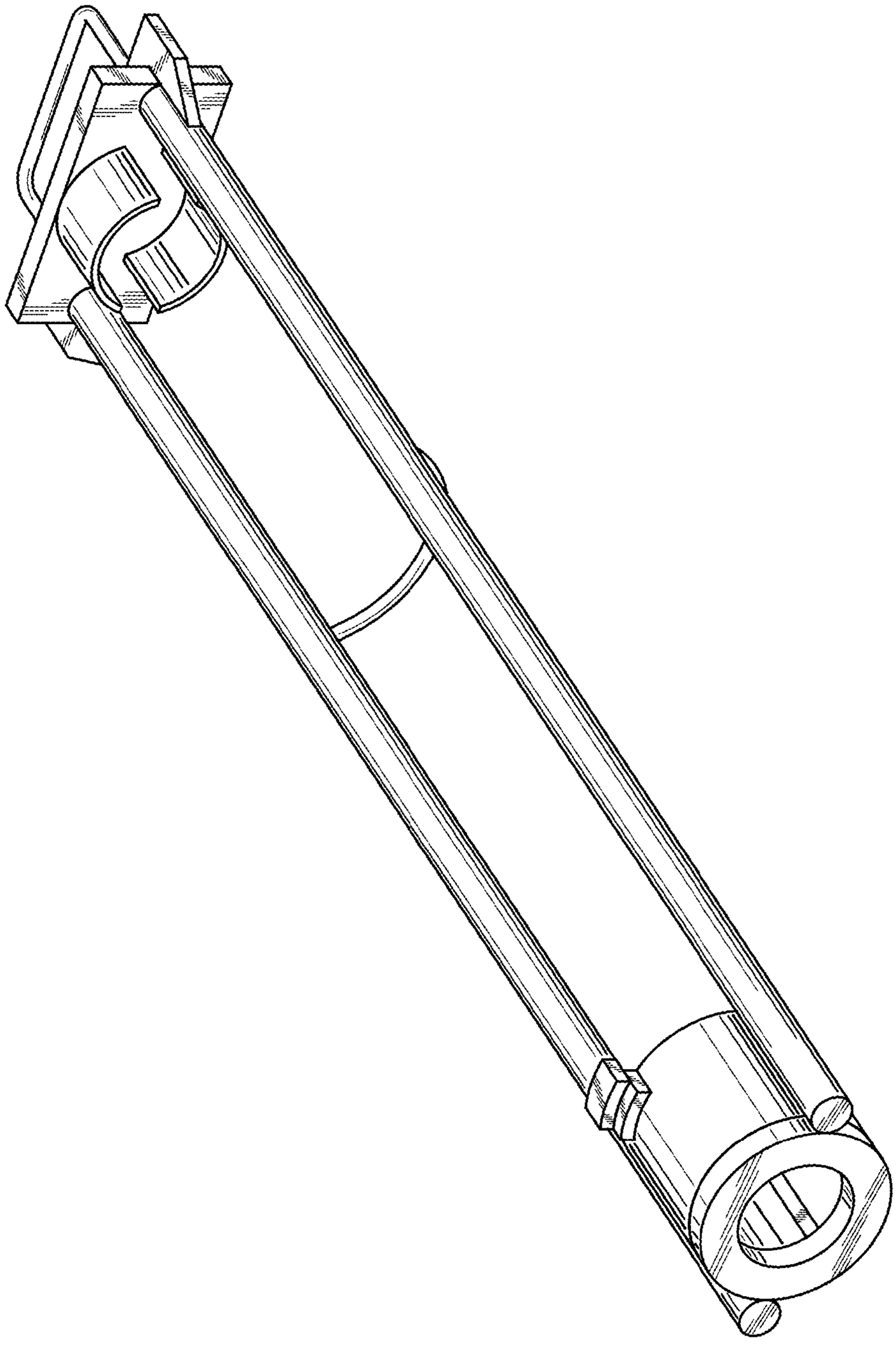


Fig. 4

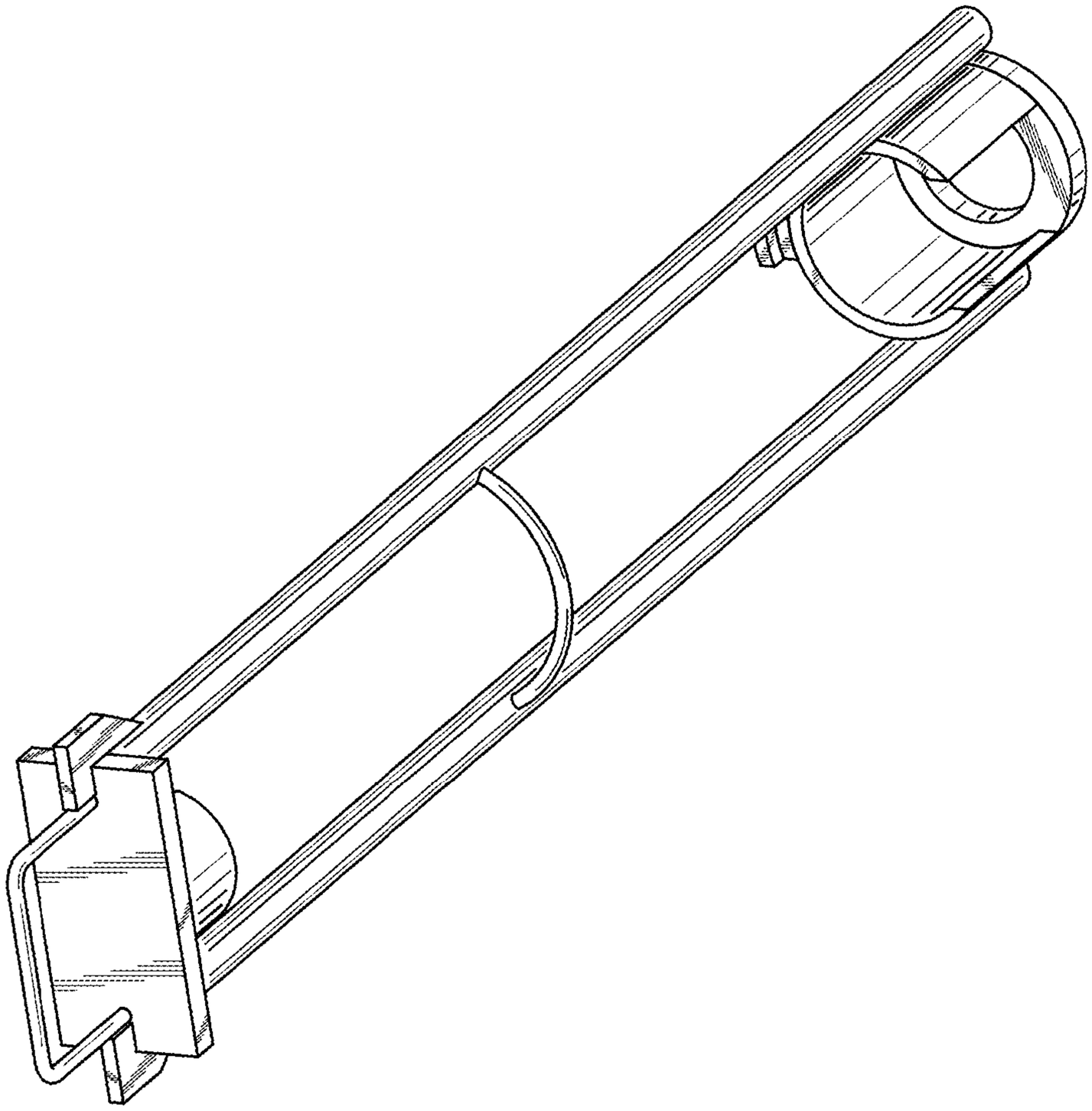


Fig. 5

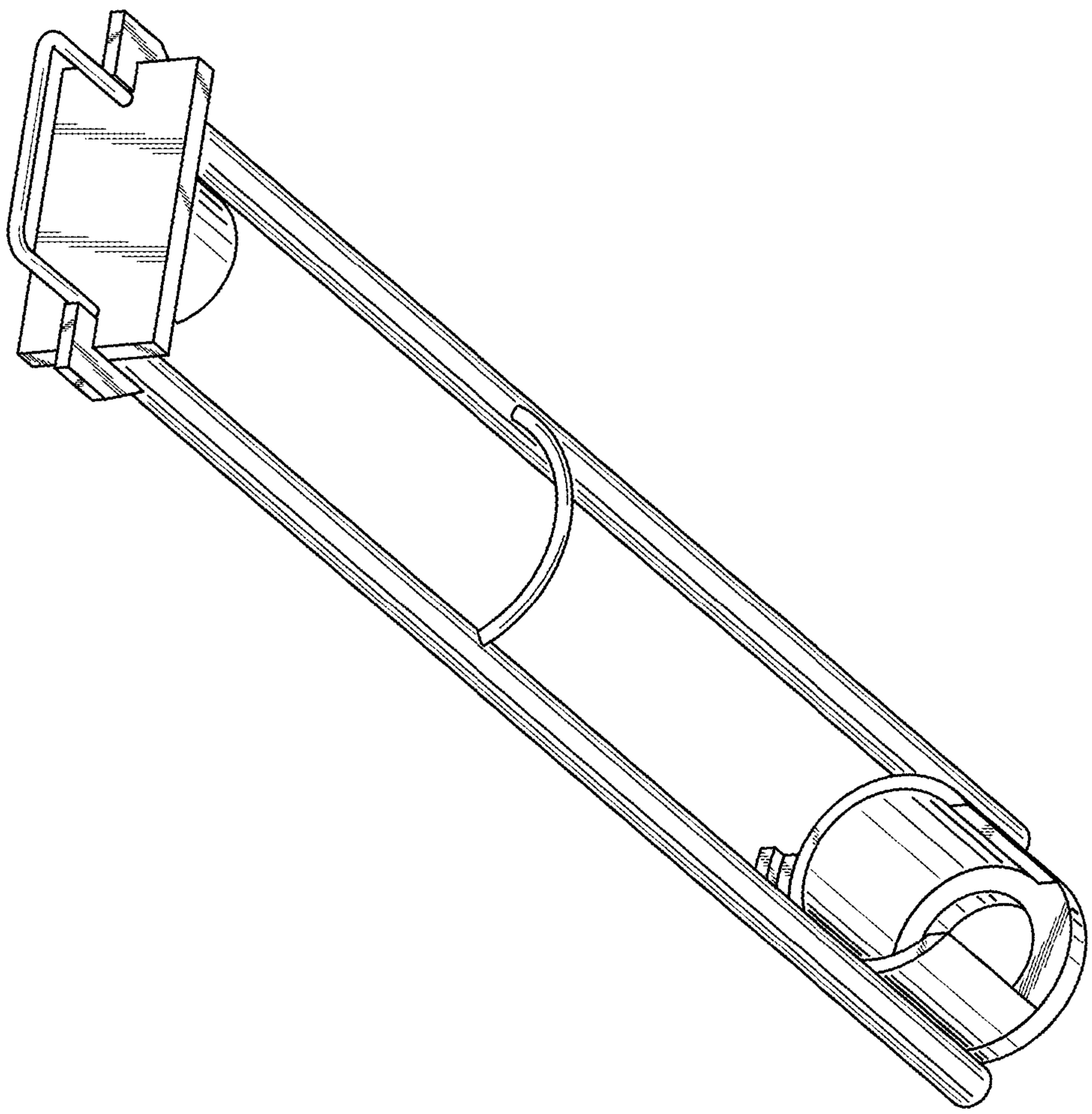


Fig. 6

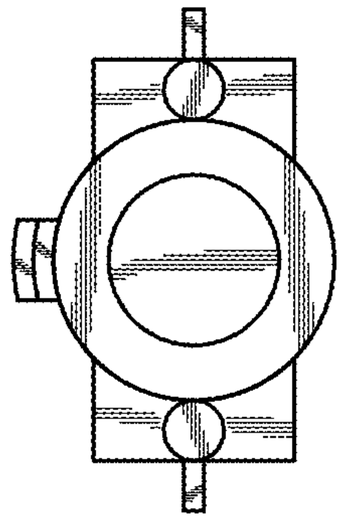


Fig. 8

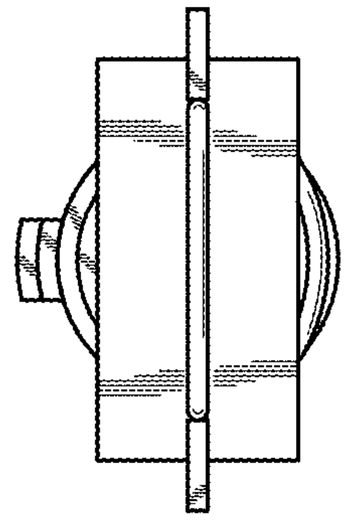


Fig. 7

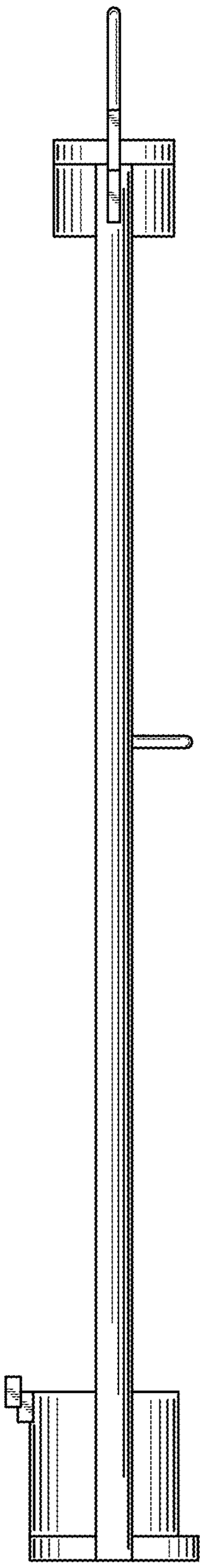


Fig. 9

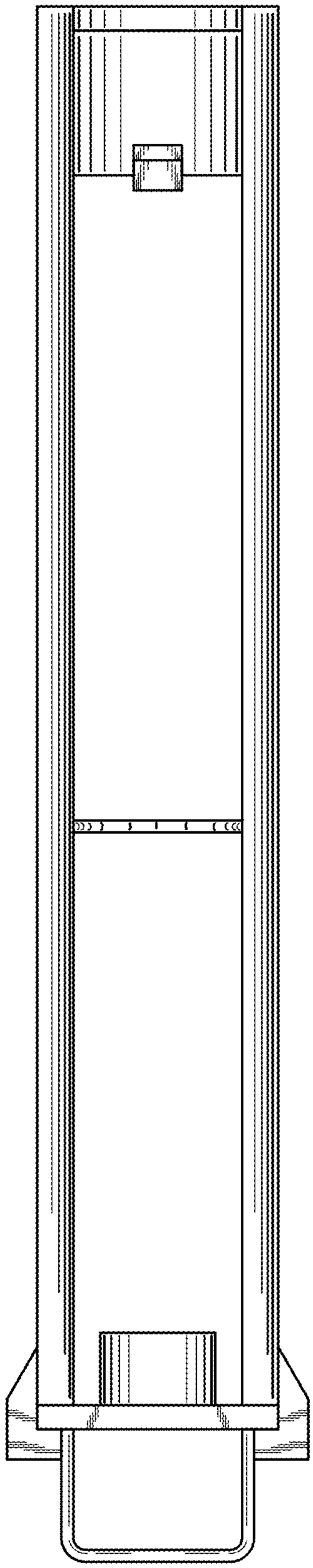


Fig. 10

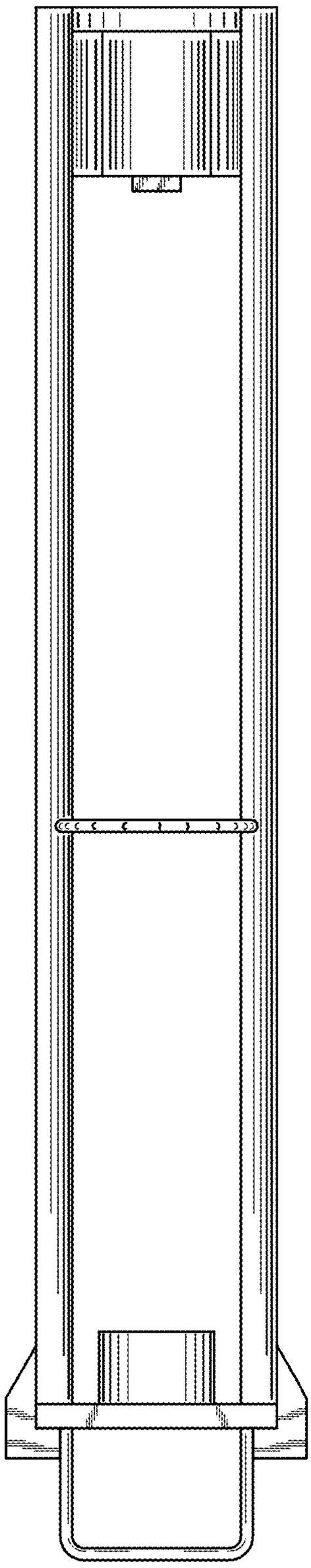


Fig. 11

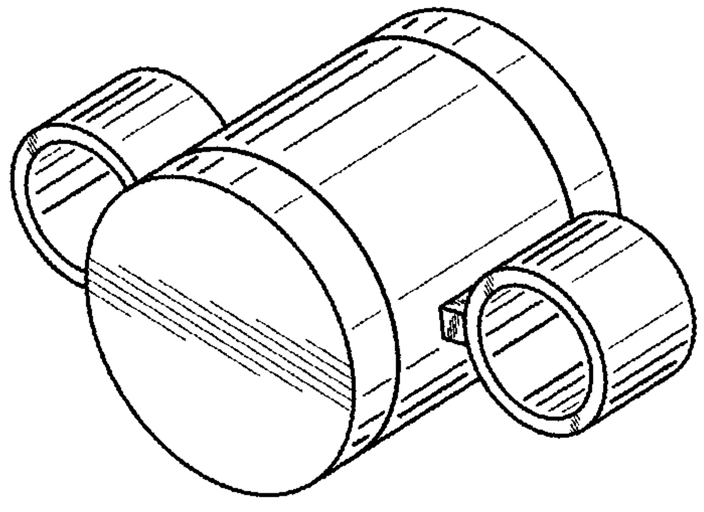


Fig. 12

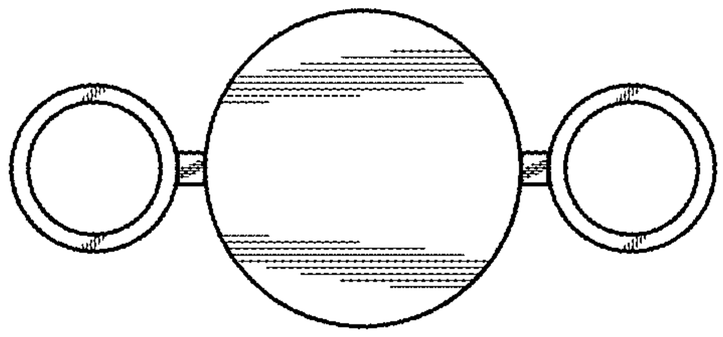


Fig. 13

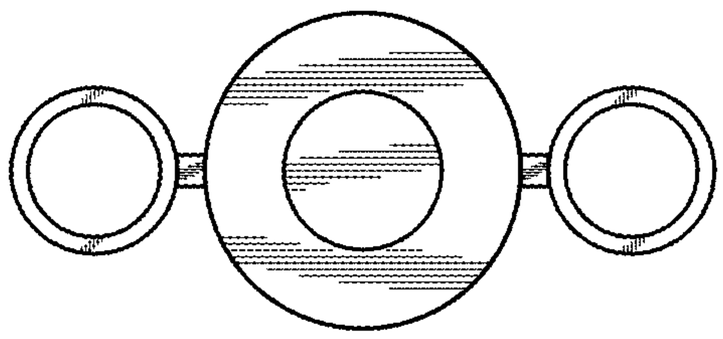


Fig. 14

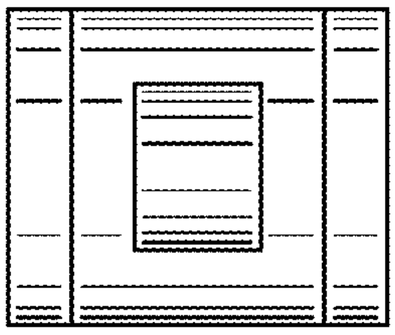


Fig. 15

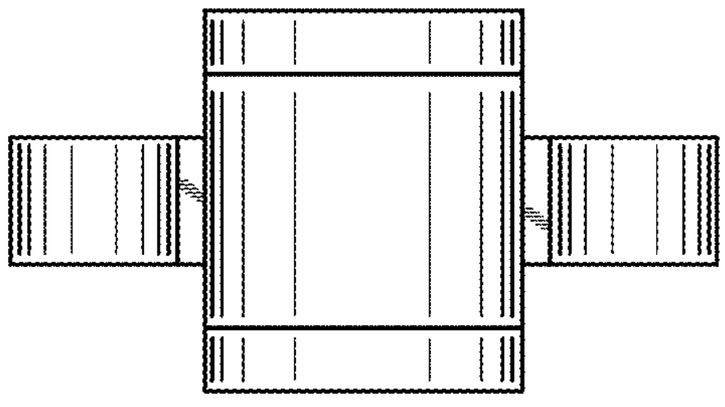


Fig. 16