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(12) United States Design Patent

Laurino et al.

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(54) **HIGH PRESSURE MANUAL PUMP WITH DETACHABLE MANIFOLD AND HIGH PRESSURE PNEUMATIC CALIBRATION MANIFOLD**

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(73) Assignee: **Fluke Corporation**, Everett, WA (US)

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

(21) Appl. No.: **29/619,670**

(22) Filed: **Sep. 29, 2017**

(51) **LOC (12) Cl.** **15-02**

(52) **U.S. Cl.**
USPC **D15/7**

(58) **Field of Classification Search**
USPC D15/7–9; D23/231, 232, 225; 417/60, 417/235, 265, 321, 355, 358, 363, 359, 417/410.1, 415–416, 405, 900, 269, 539; 60/408, 412; 184/26–37; 415/140–147; 123/495, 509; 137/565.34
CPC F02M 37/04; F02M 37/14; F04B 53/92; F04B 1/005; F04D 13/06; F04D 29/22; F04D 29/046; F04D 29/2266
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D296,103	S *	6/1988	Harvey	D15/7
D323,876	S *	2/1992	Furusawa	D23/231
D351,896	S *	10/1994	Sundheim	D15/7
D372,251	S *	7/1996	Bohncke	D15/7
6,814,552	B2 *	11/2004	Wu	F04B 33/005 137/228

(Continued)

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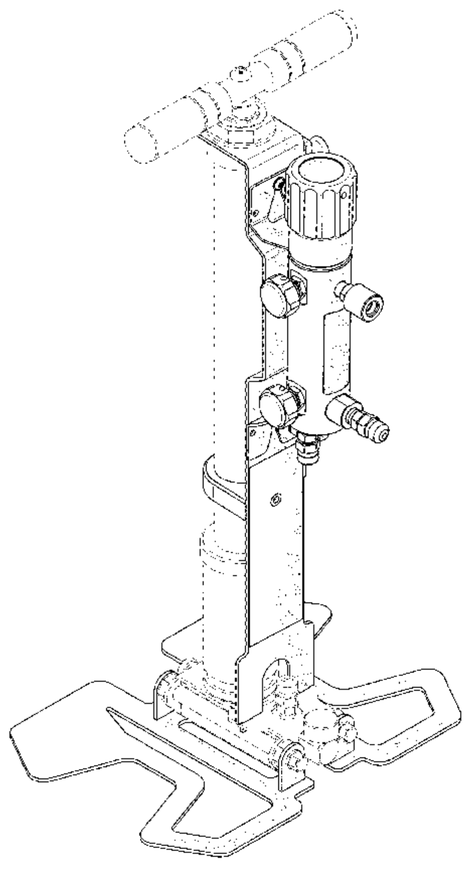
(57) **CLAIM**

The ornamental design for a high pressure manual pump with detachable manifold and high pressure pneumatic calibration manifold, as shown and described.

DESCRIPTION

FIG. **1** is a top front left perspective view of a high pressure manual pump with detachable manifold and high pressure pneumatic calibration manifold showing our new design.
FIG. **2** is a bottom rear right perspective view thereof.
FIG. **3** is a left side elevation view thereof.
FIG. **4** is a front elevation view thereof.
FIG. **5** is a top plan view thereof.
FIG. **6** is a rear elevation view thereof.
FIG. **7** is a right side elevation view thereof.
FIG. **8** is a bottom plan view thereof.
FIG. **9** is a top front left perspective view of the high pressure manual pump with detachable manifold and high pressure pneumatic calibration manifold shown in FIG. **1**, with rotatable feet shown in an alternative upright position.
FIG. **10** is a top front left perspective view of a high pressure manual pump with detachable manifold and high pressure pneumatic calibration manifold showing our new design.
FIG. **11** is a bottom rear right perspective view thereof.
FIG. **12** is a left side elevation view thereof.
FIG. **13** is a front elevation view thereof.
FIG. **14** is a top plan view thereof.
FIG. **15** is a rear elevation view thereof.
FIG. **16** is a right side elevation view thereof; and,
FIG. **17** is a bottom plan view thereof.
The broken lines in the figures illustrate environment only and form no part of the claimed design.

1 Claim, 17 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

7,331,768	B2 *	2/2008	Wu	F04B 33/005	417/468
D596,202	S *	7/2009	van der Blom	D10/86	
7,789,638	B2 *	9/2010	Chuang	F04B 33/005	417/429
D632,306	S *	2/2011	Wang	D15/7	
D632,307	S *	2/2011	Wang	D15/7	
D649,561	S *	11/2011	Bauck	D15/7	
D691,179	S *	10/2013	Charriere	D15/7	
D725,679	S *	3/2015	Charriere	D15/7	
D729,279	S *	5/2015	Fulkerson	F04B 53/10	D15/7
D729,848	S *	5/2015	Charriere	D15/7	
D745,570	S *	12/2015	Scott	D15/7	
D759,201	S *	6/2016	Wu	D15/7	
D771,719	S *	11/2016	Van Keulen	D15/9	
D775,236	S *	12/2016	Bruning	D15/7	
D800,176	S *	10/2017	Soto	D15/7	
D803,892	S *	11/2017	Timmer	D15/7	
D809,023	S *	1/2018	Luke	D15/7	

* cited by examiner

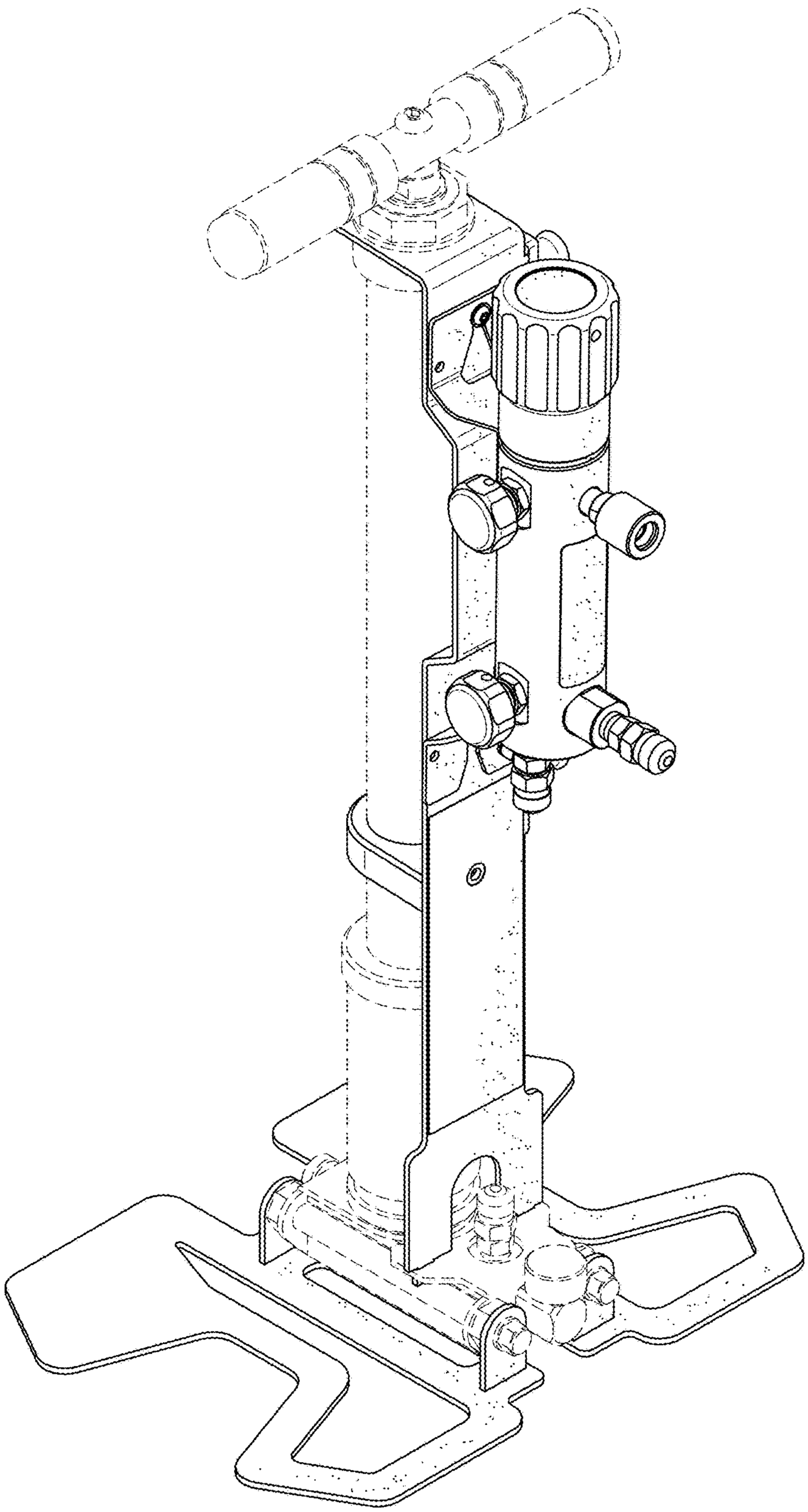


FIG. 1

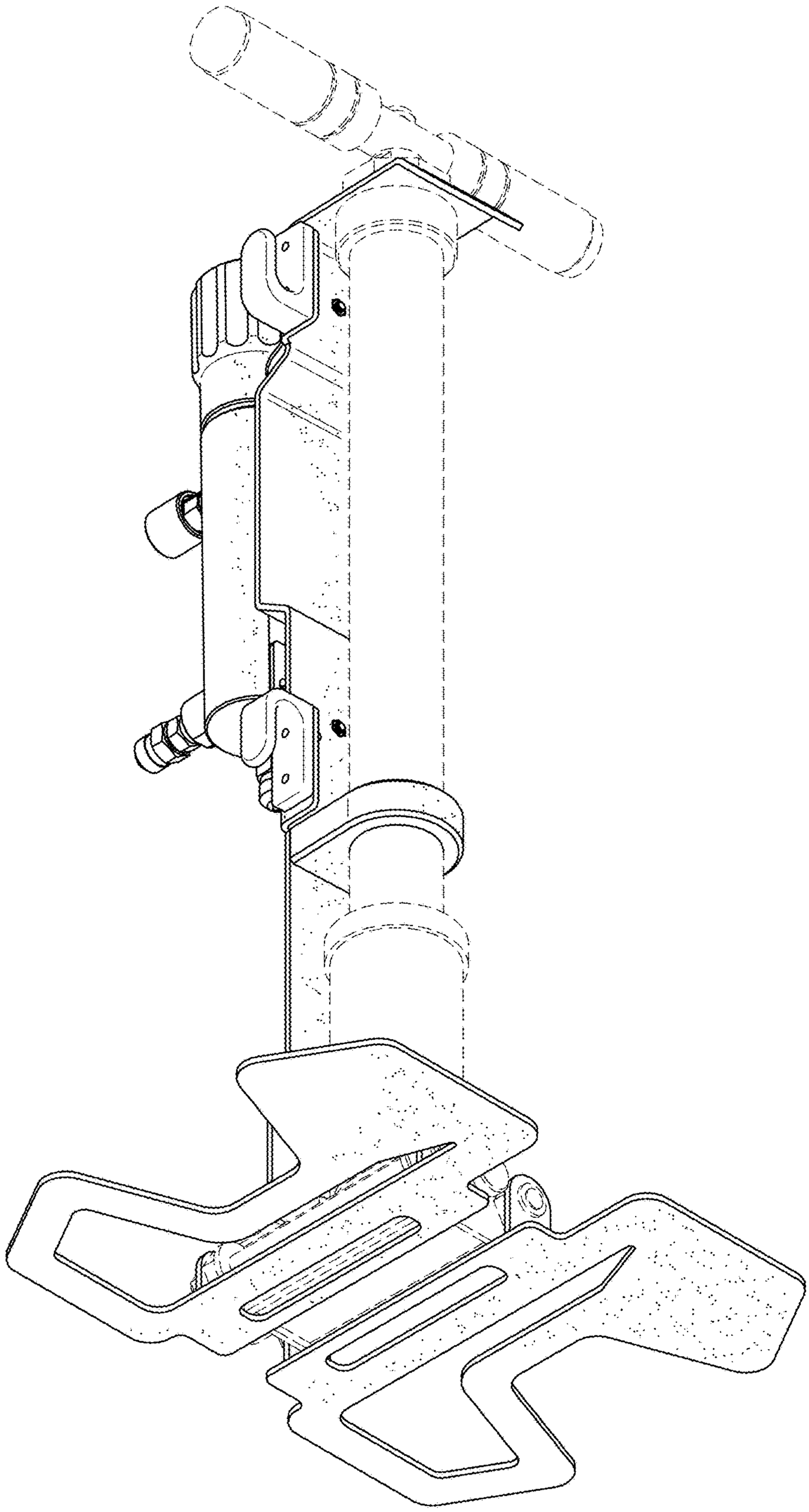


FIG. 2

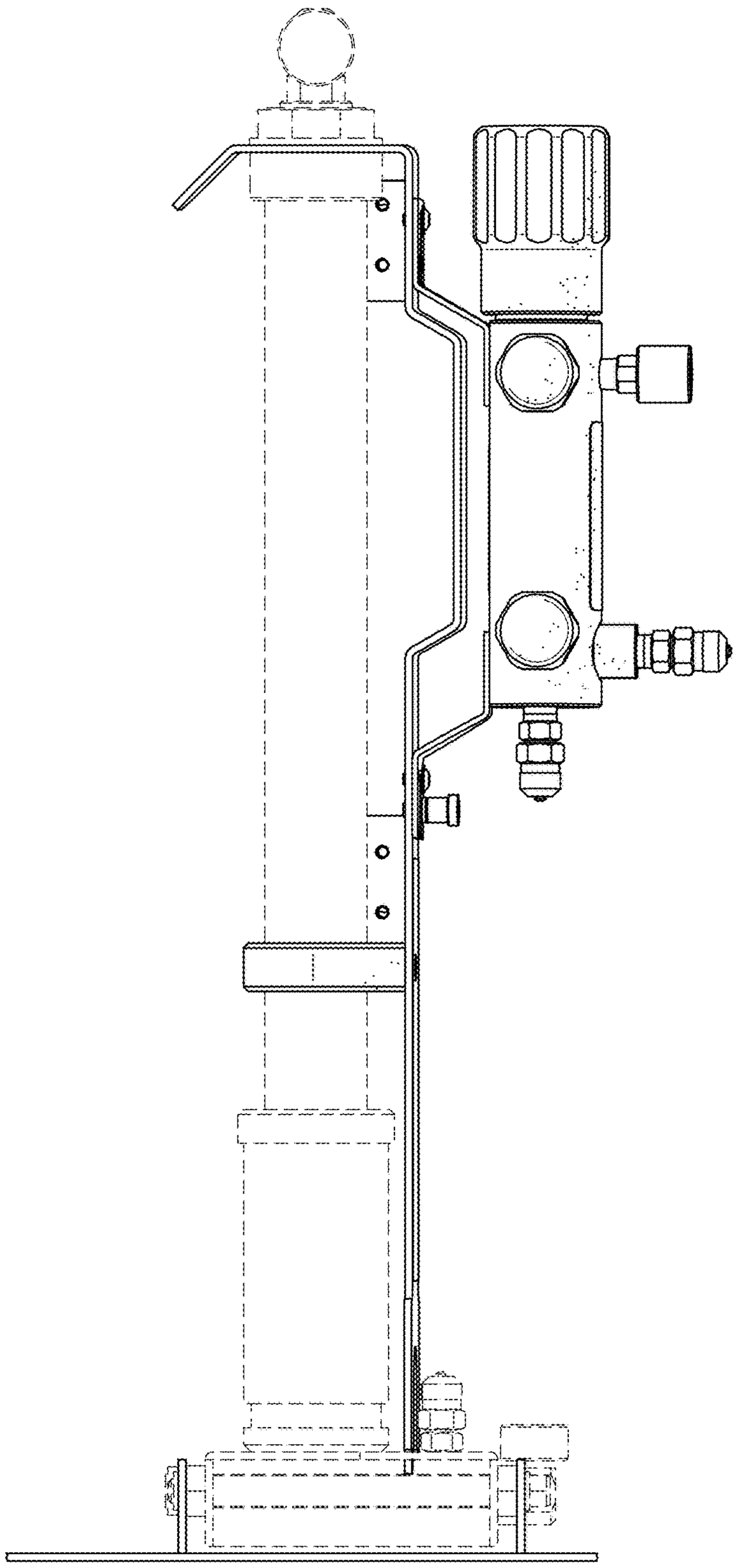


FIG. 3

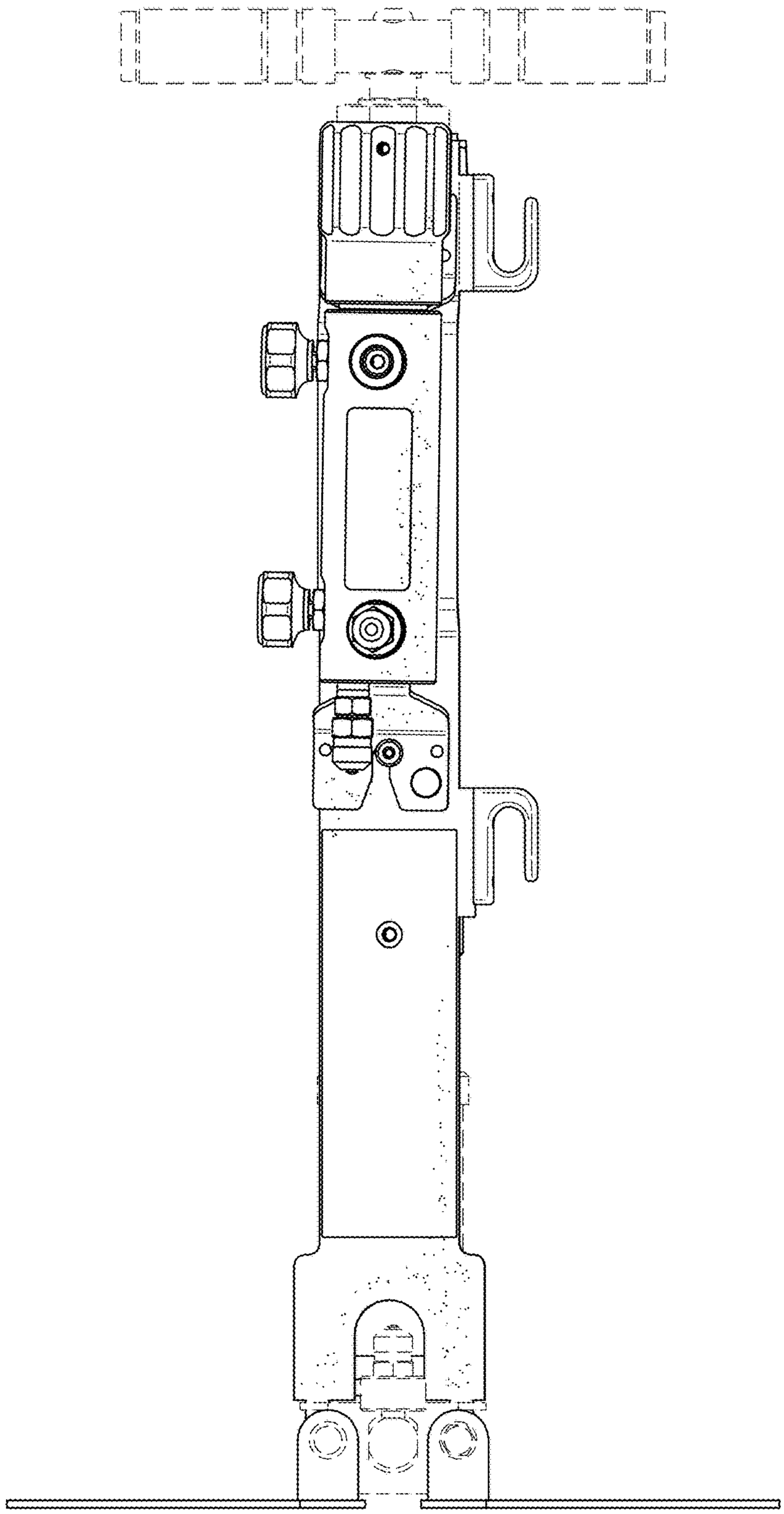


FIG. 4

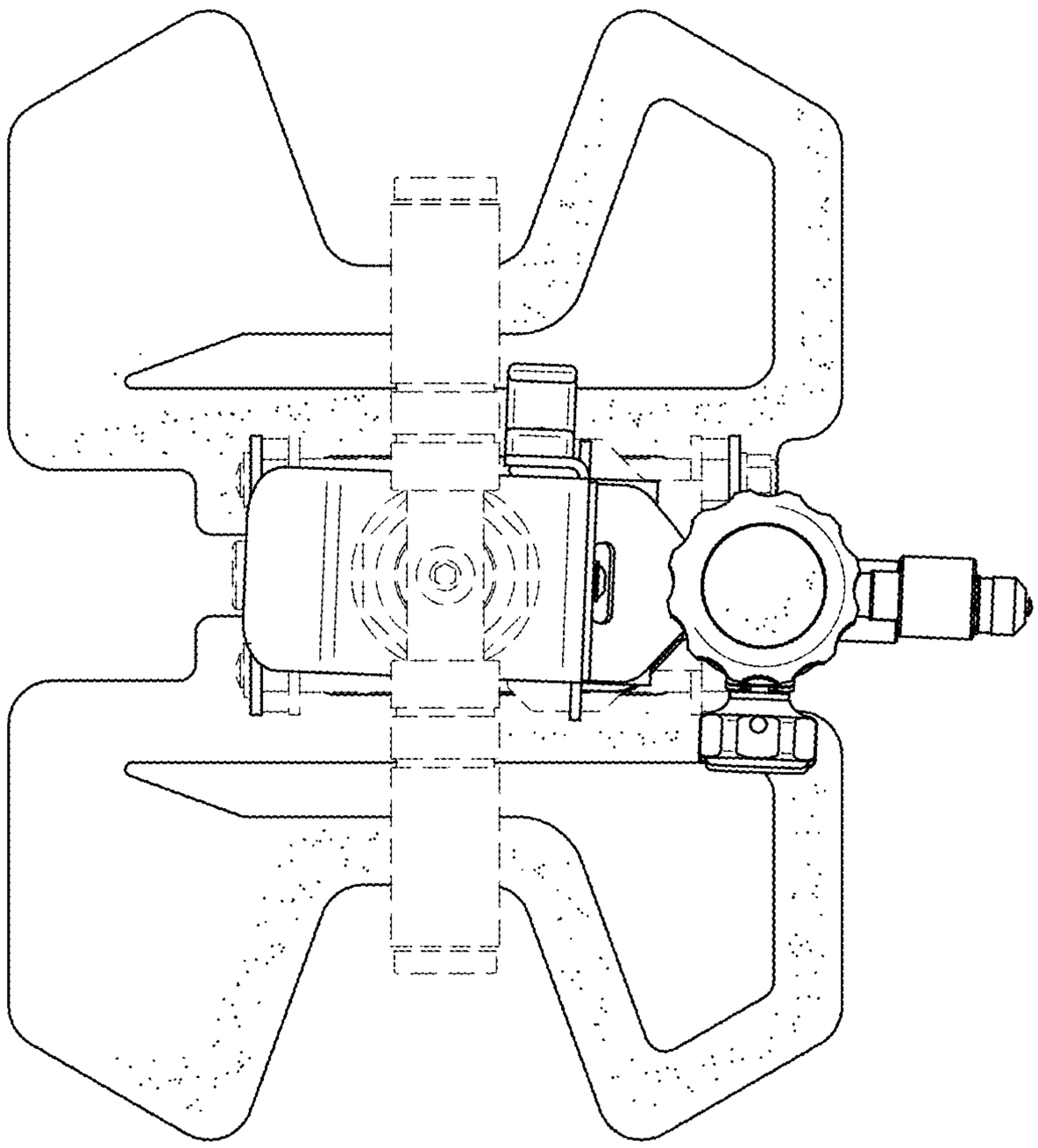


FIG. 5

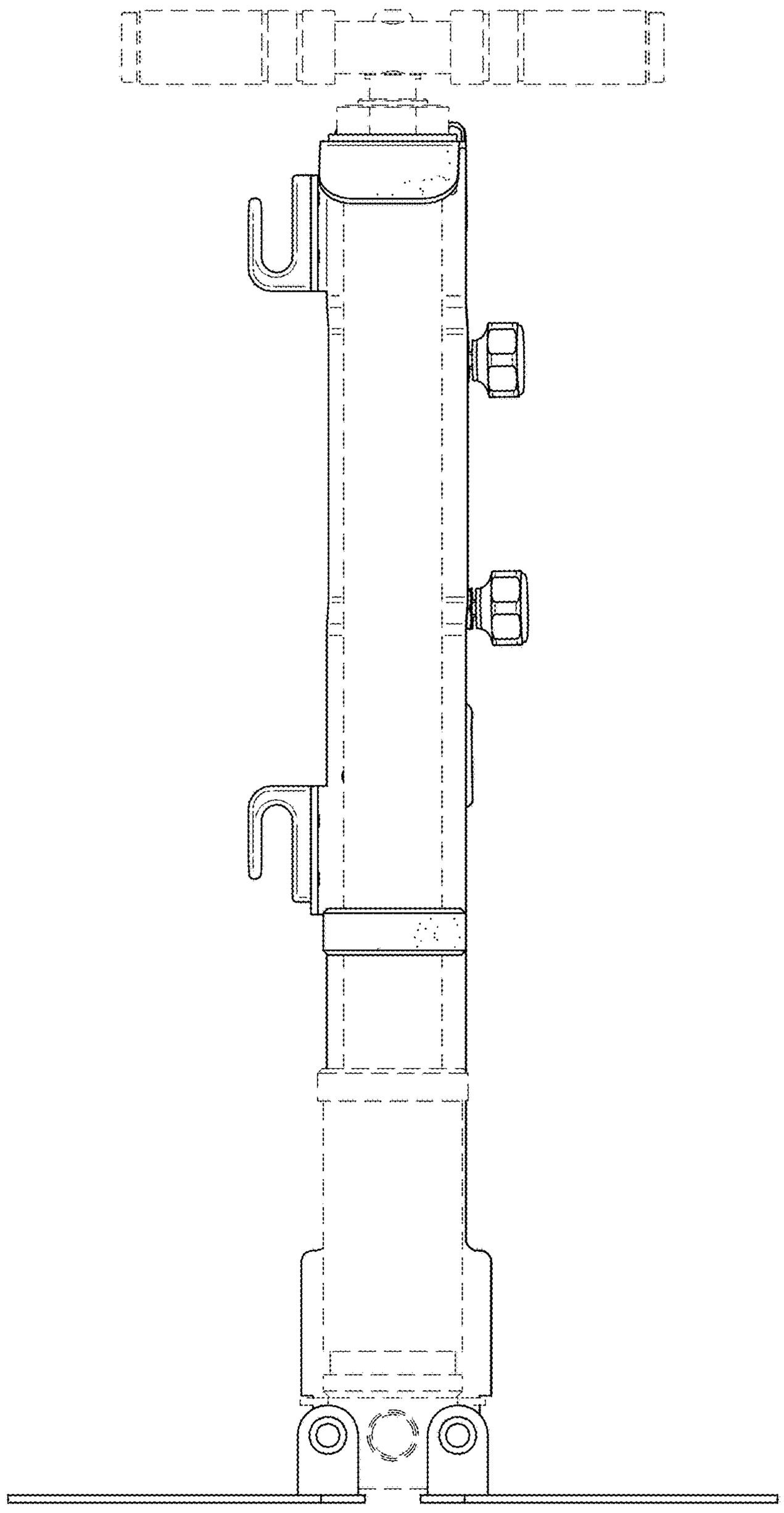


FIG. 6

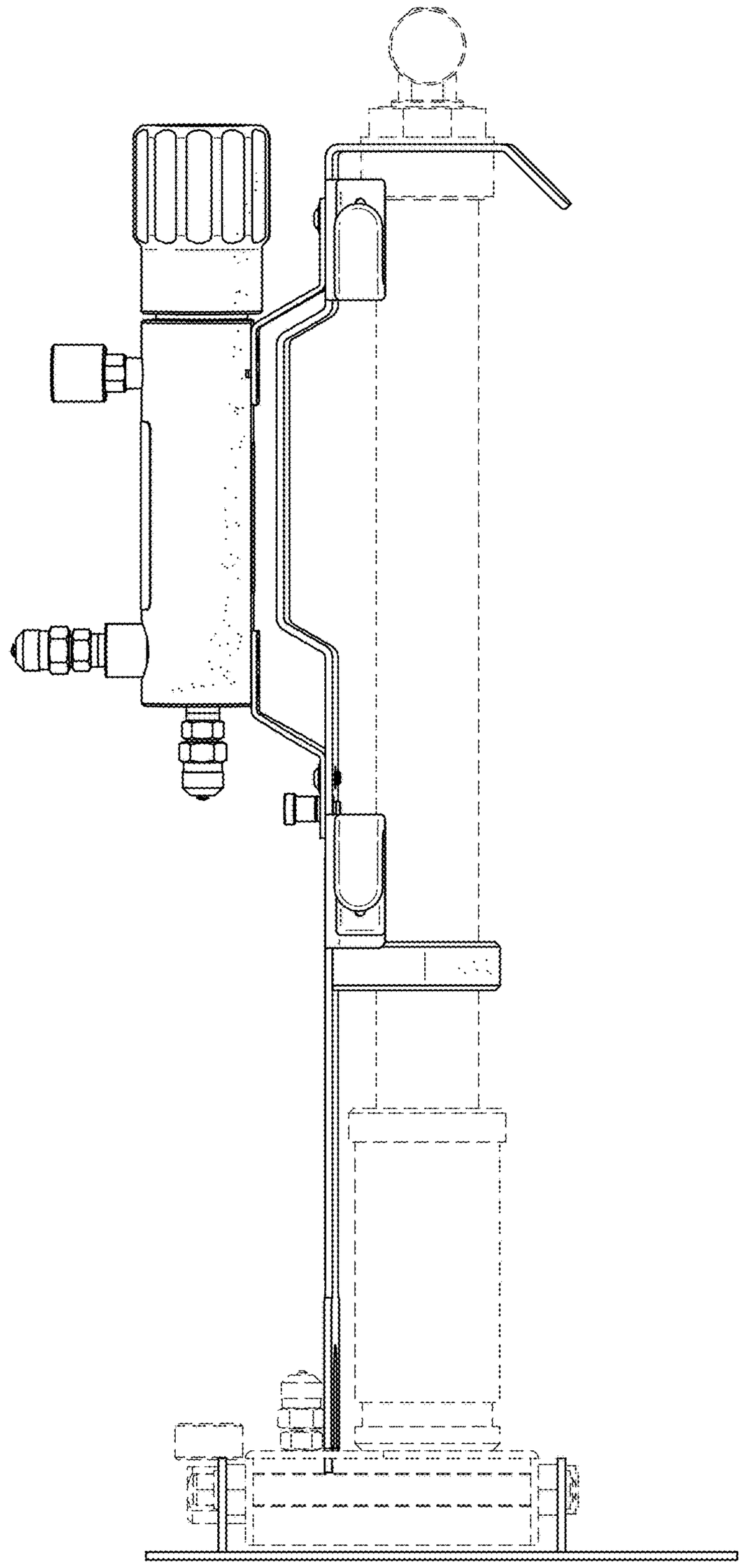


FIG. 7

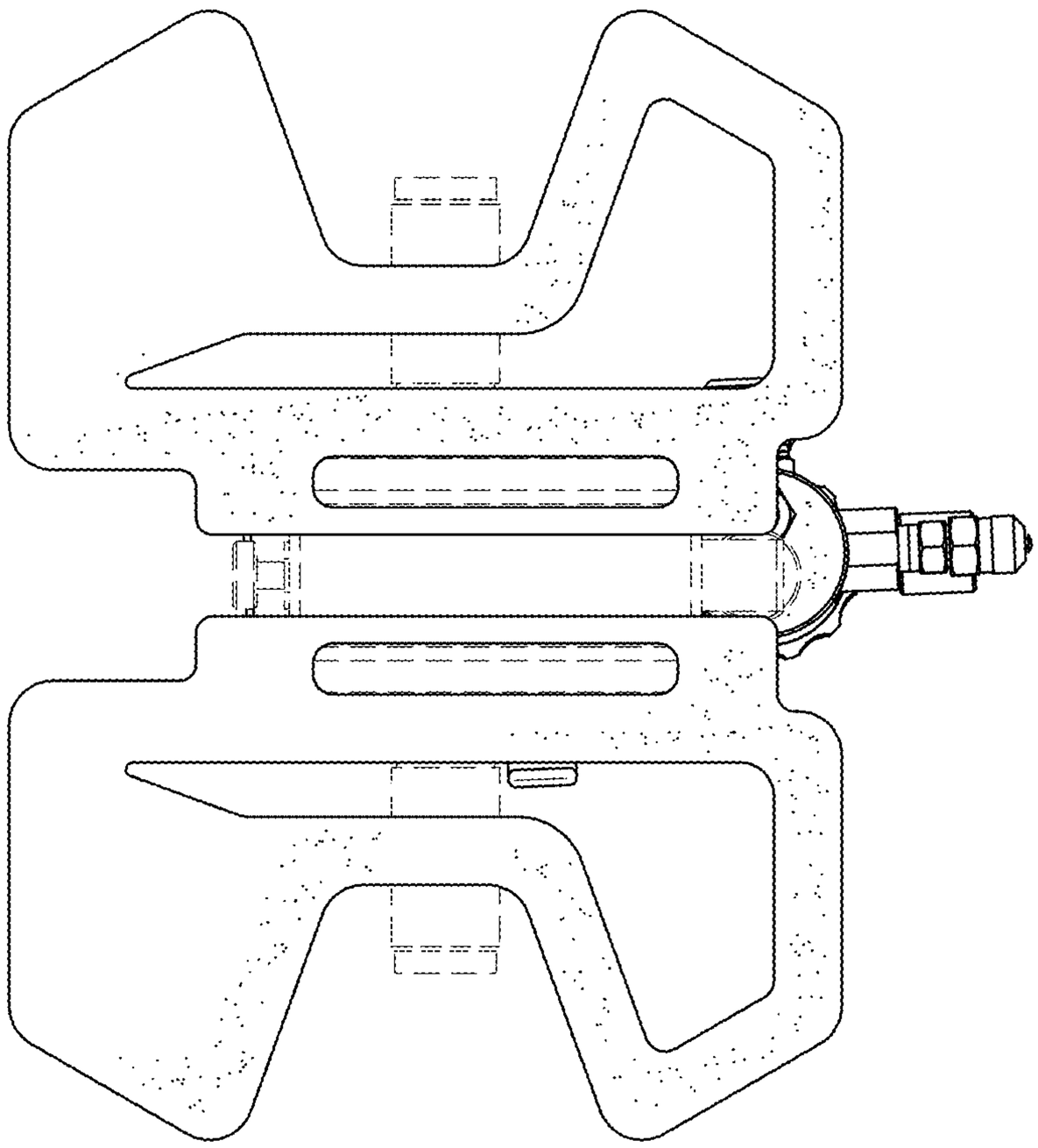


FIG. 8

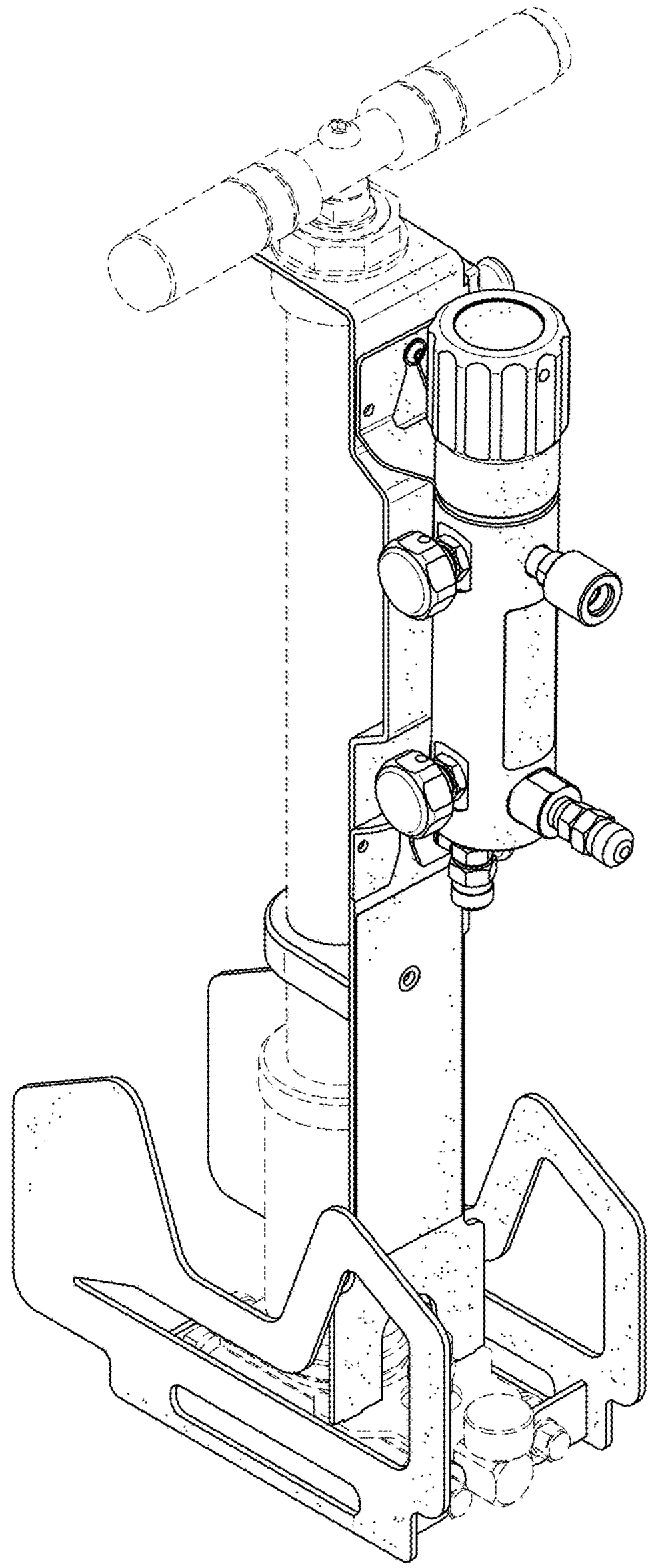
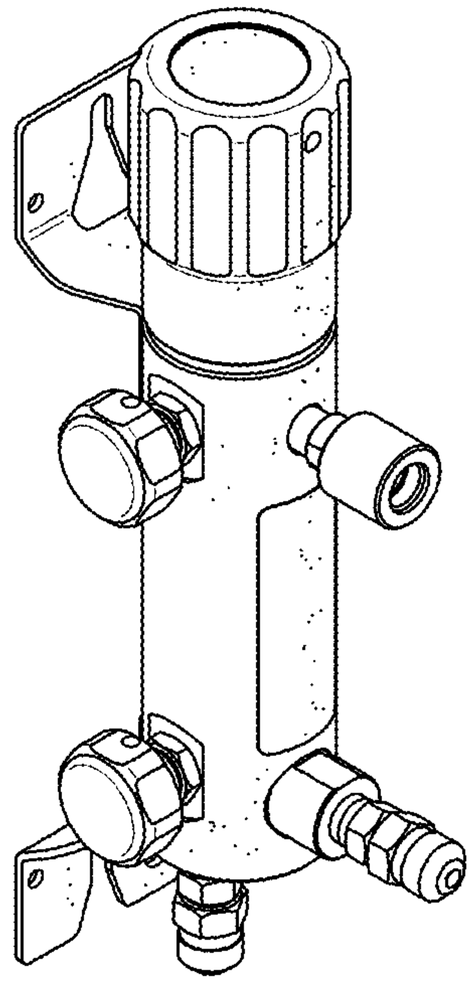


FIG. 9



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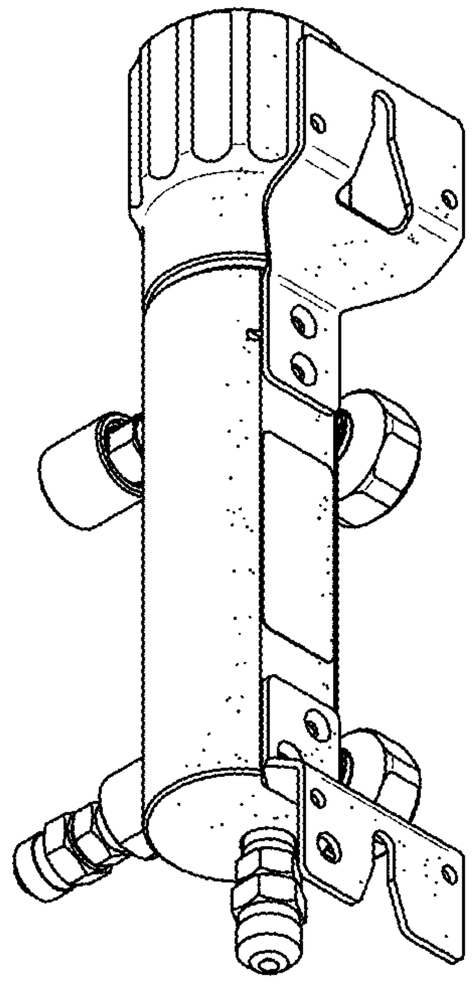

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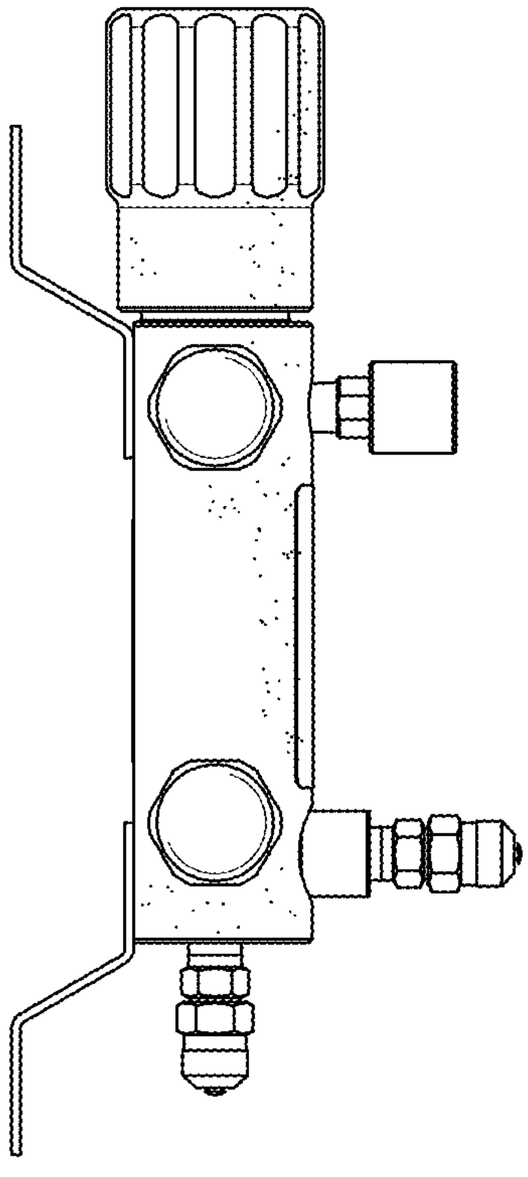

FIG. 12

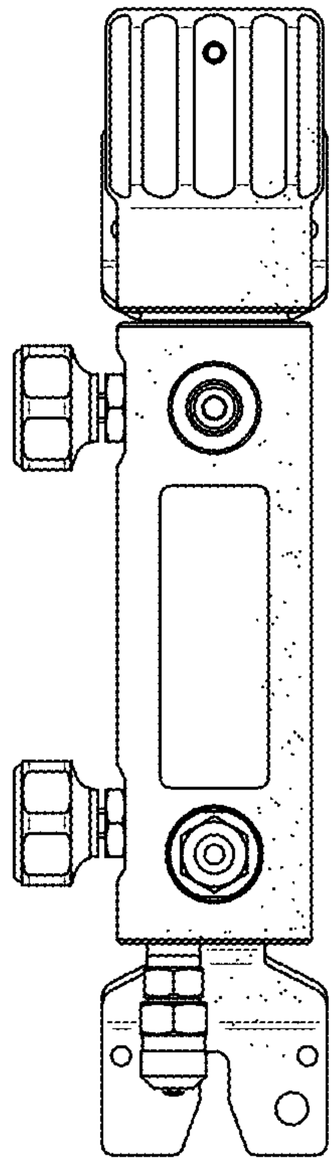

FIG. 13

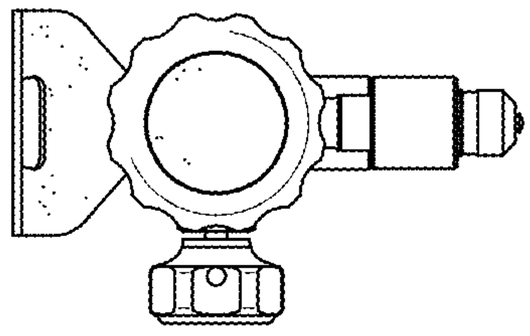

FIG. 14

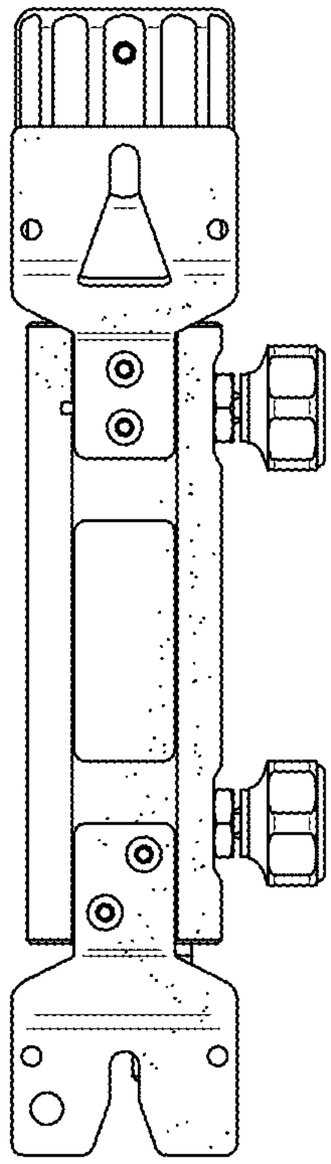

FIG. 15

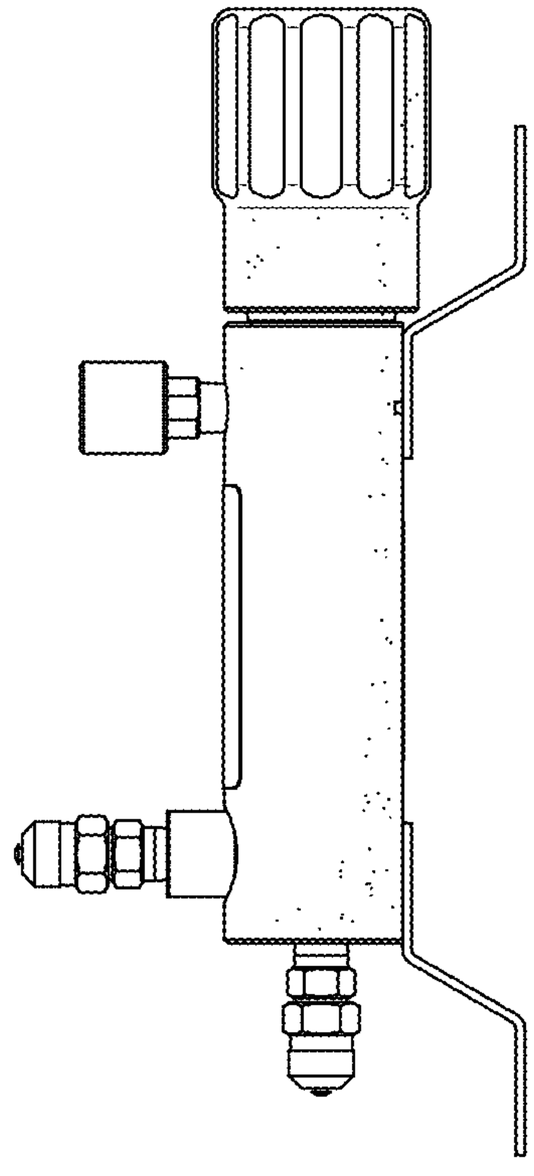

FIG. 16

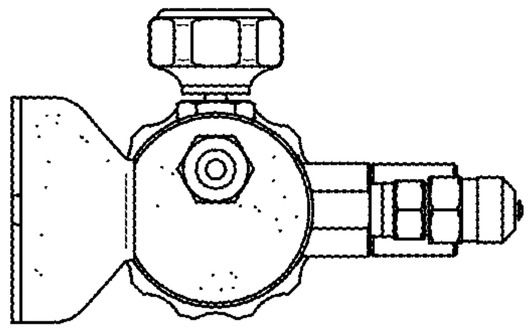

FIG. 17