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(12) **United States Design Patent** (10) **Patent No.:** **US D833,499 S**
Wang et al. (45) **Date of Patent:** **** Nov. 13, 2018**

(54) **INDUSTRIAL ROBOT**

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

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(52) **U.S. Cl.**
USPC **D15/199**

(58) **Field of Classification Search**
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CPC B25J 5/007; B60B 19/006; B62D 57/024;
H01F 7/0221; Y10S 901/01
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D282,077	S	*	1/1986	Abe	.....	D15/122
D287,368	S	*	12/1986	Shibayama	.....	D15/122
D293,324	S	*	12/1987	Gotou	.....	D15/122
D343,630	S	*	1/1994	Tomiyama	.....	D15/199
D433,042	S	*	10/2000	Kawahara	.....	D15/199
D452,517	S	*	12/2001	Kawaguchi	.....	D15/199
D455,163	S	*	4/2002	Kawaguchi	.....	D15/199
D503,943	S	*	4/2005	Kawaguchi	.....	D15/199
D622,299	S	*	8/2010	Liu	.....	D15/199
D625,347	S	*	10/2010	Feng	.....	D15/199
D645,488	S	*	9/2011	Miyake	.....	D15/199

D711,061	S	*	8/2014	Chen	.....	D34/29
D718,160	S	*	11/2014	Shimano	.....	D10/65
D782,553	S	*	3/2017	Goto	.....	D15/199
D790,618	S	*	6/2017	Ke	.....	D15/199
D792,917	S	*	7/2017	Fischer	.....	D15/199
D800,199	S	*	10/2017	Yang	.....	D15/199
D810,801	S	*	2/2018	Hsu	.....	D15/199
2015/0321347	A1	*	11/2015	Hirota	.....	H01L 21/67706 414/744.5
2016/0107317	A1	*	4/2016	Hashimoto	.....	B25J 9/042 414/744.2
2016/0136818	A1	*	5/2016	Kitahara	.....	B65G 47/90 414/222.07
2016/0229058	A1	*	8/2016	Pinter	.....	G06Q 50/22
2017/0080577	A1	*	3/2017	Motoyoshi	.....	B25J 13/088
2017/0182658	A1	*	6/2017	Bordegnoni		B25J 9/0009
2017/0182669	A1	*	6/2017	Bordegnoni		B25J 9/044

(Continued)

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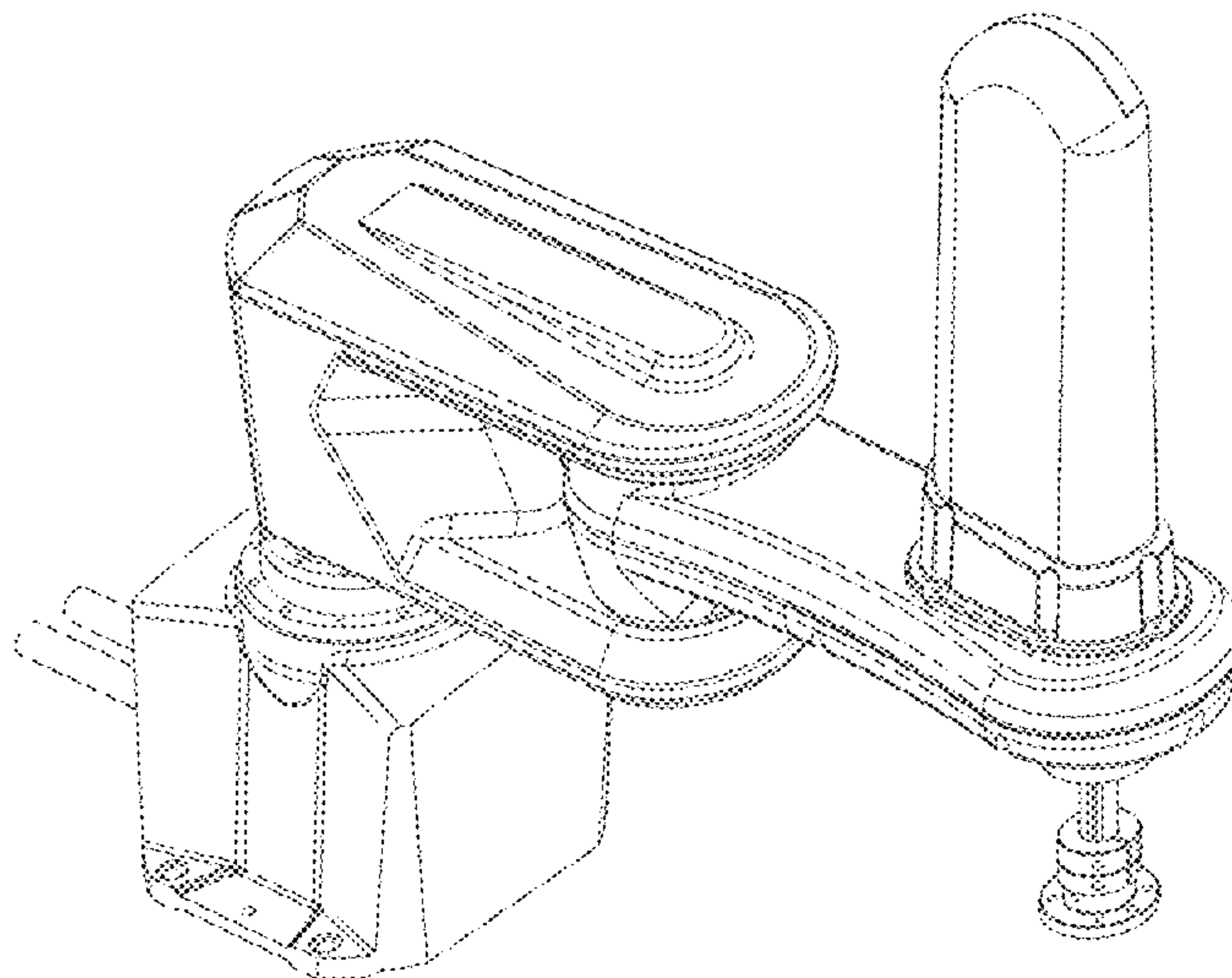
(57) **CLAIM**

The ornamental design for an industrial robot, as shown and described.

DESCRIPTION

FIG. 1 is a perspective side view of an industrial robot.
FIG. 2 is a front side view of the industrial robot shown in FIG. 1.
FIG. 3 is a back side view of the industrial robot shown in FIG. 1.
FIG. 4 is a top side view of the industrial robot shown in FIG. 1.
FIG. 5 is a bottom side view of the industrial robot shown in FIG. 1.
FIG. 6 is a right side view of the industrial robot shown in FIG. 1; and,
FIG. 7 is a left side view of the industrial robot shown in FIG. 1.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2017/0239810 A1* 8/2017 Bordegnoni B25J 9/042
2017/0274537 A1* 9/2017 Kondo B25J 9/042

* cited by examiner

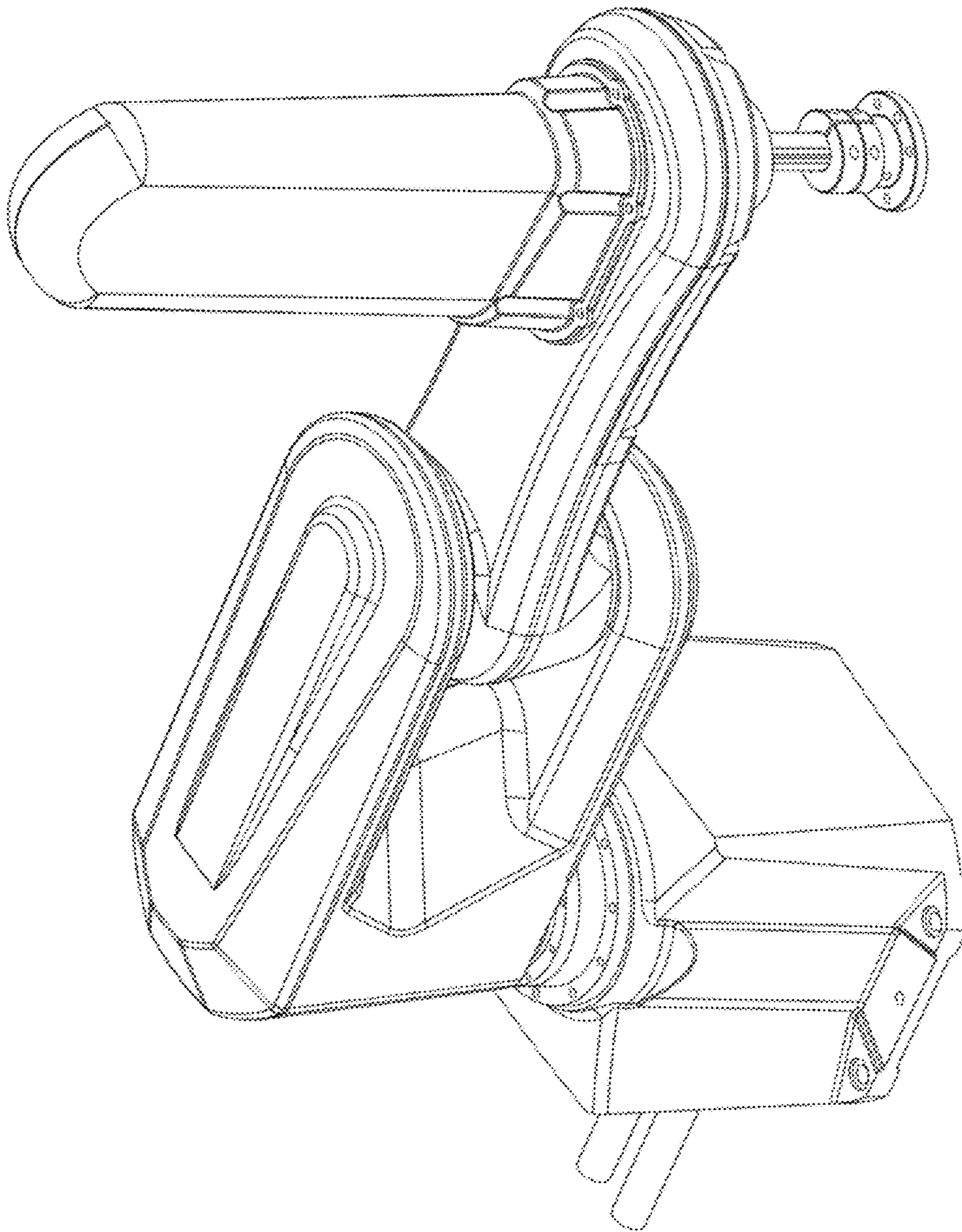


FIGURE 1

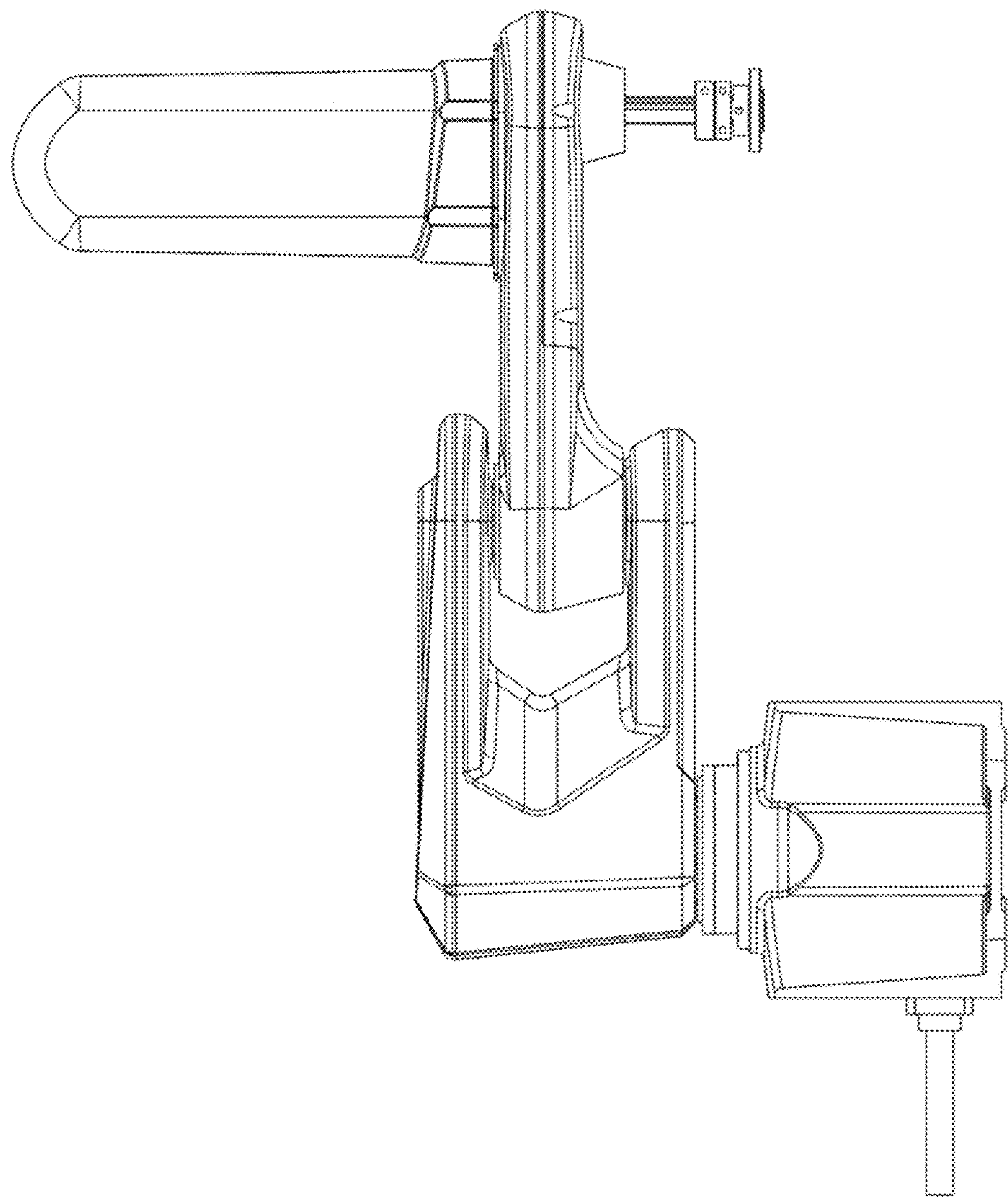


FIGURE 2

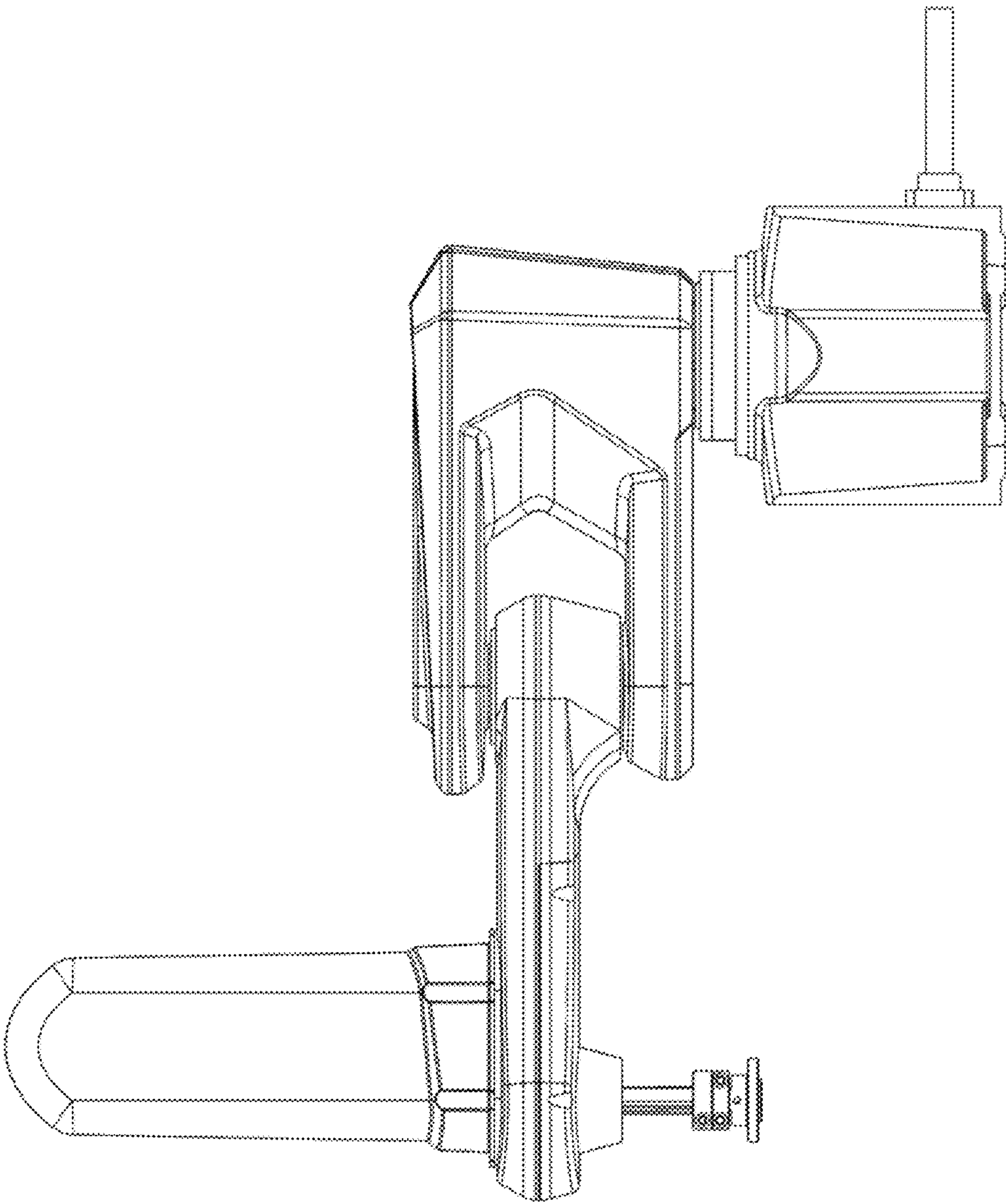


FIGURE 3

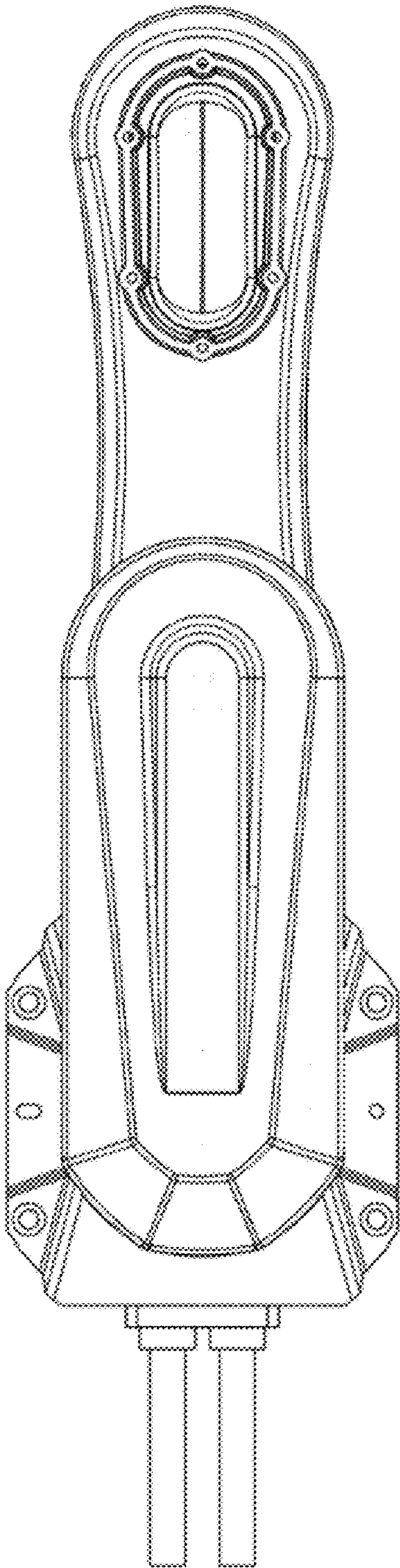


FIGURE 4

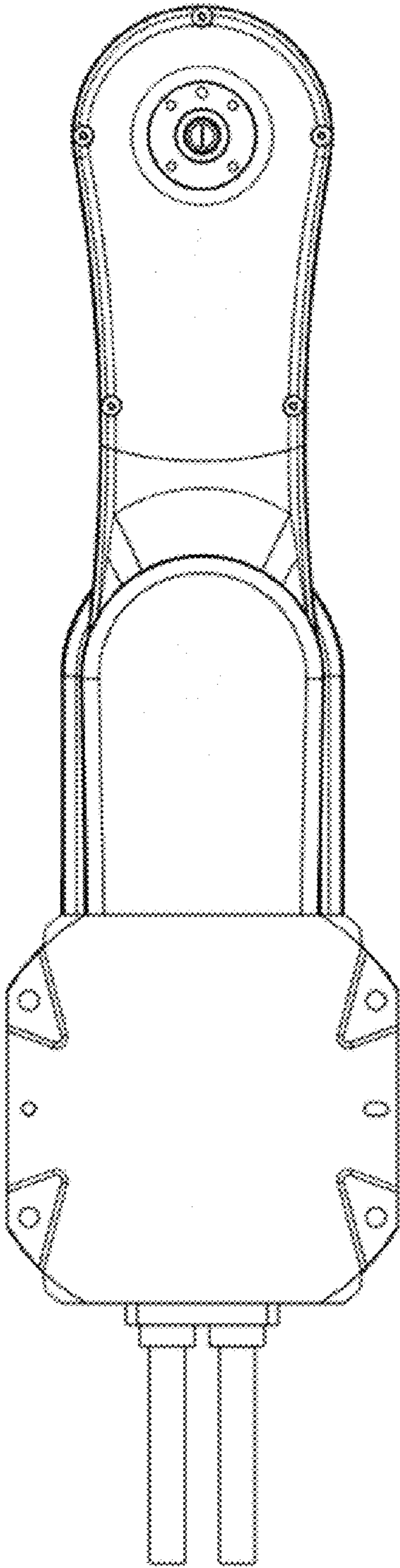


FIGURE 5

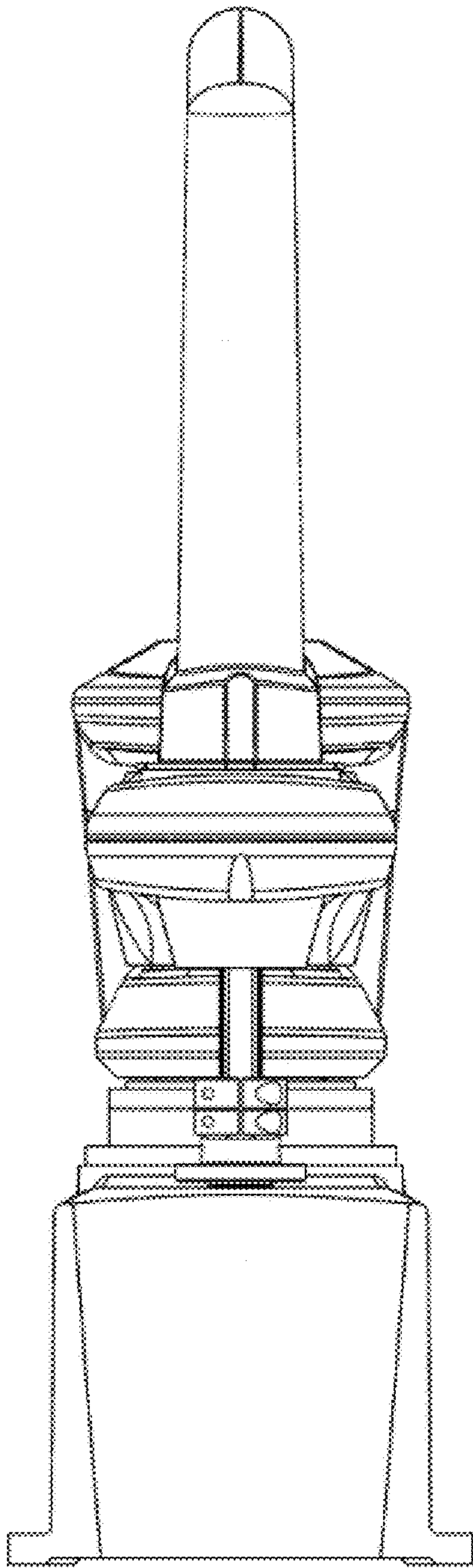


FIGURE 6

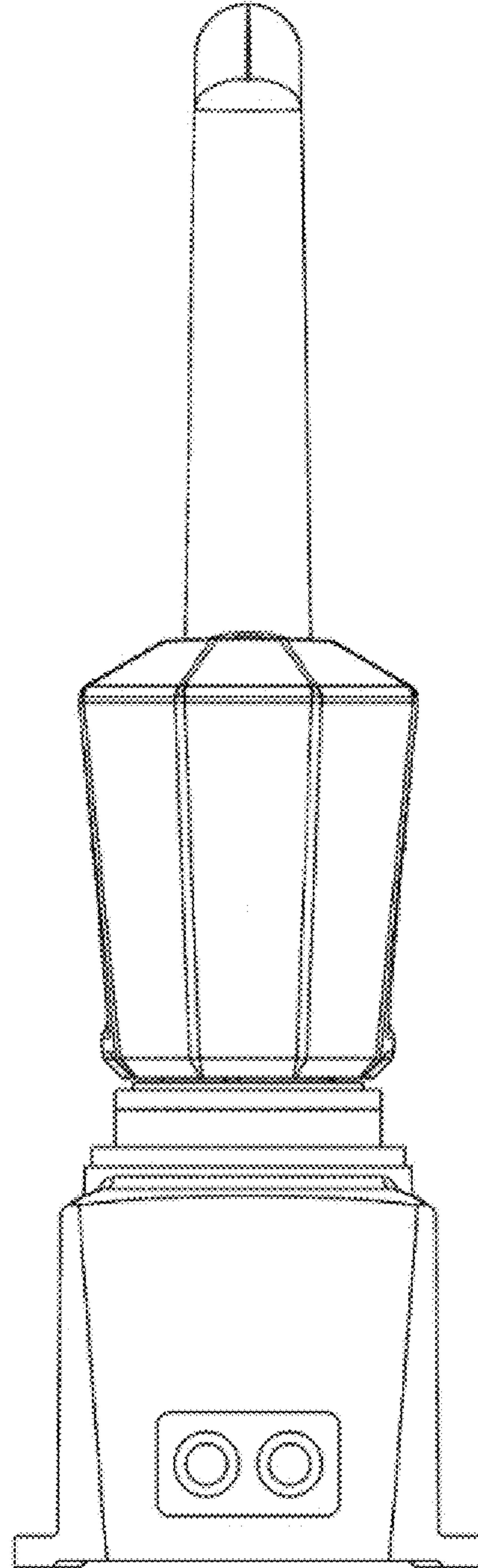


FIGURE 7