



US00D852858S

(12) **United States Design Patent** (10) **Patent No.:** **US D852,858 S**  
**Fook** (45) **Date of Patent:** **\*\* Jul. 2, 2019**

(54) **AUTONOMOUS INDOOR SCANNING ROBOT**

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(72) Inventor: **Lee Seng Fook**, Singapore (SG)

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

(21) Appl. No.: **29/625,217**

(22) Filed: **Nov. 8, 2017**

(51) **LOC (11) Cl.** ..... **15-99**

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

(58) **Field of Classification Search**  
USPC ..... D15/199; D21/578-583, 621, 622  
CPC .. A47L 9/2826; A47L 9/2852; A47L 2201/06;  
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**

4,273,506	A *	6/1981	Thomson	.....	B25J 9/046 294/106
4,636,137	A *	1/1987	Lemelson	.....	B25J 5/005 348/114
4,653,739	A *	3/1987	Moore	.....	B23K 37/0461 228/49.2
D293,449	S *	12/1987	Kaufmann	.....	D15/122
D296,790	S *	7/1988	Tsuburaya	.....	D15/122
4,766,775	A *	8/1988	Hodge	.....	B25J 9/08 74/490.01
D344,280	S *	2/1994	Koyama	.....	D15/199
D545,721	S *	7/2007	Hacker	.....	D12/1
D572,739	S *	7/2008	Jennings	.....	D15/199
D636,803	S *	4/2011	Nakagiri	.....	D15/199
D642,352	S *	7/2011	Chen	.....	D34/28

D768,219	S *	10/2016	Kraus	.....	D15/199
D778,971	S *	2/2017	Long	.....	D15/199
D782,553	S *	3/2017	Goto	.....	D15/199
D822,736	S *	7/2018	Kato	.....	D15/199
D825,632	S *	8/2018	Clemmer	.....	D15/199
2012/0310411	A1 *	12/2012	Tsuboi	.....	B25J 9/1674 700/245
2014/0232124	A1 *	8/2014	Dan	.....	B25J 15/0009 294/198
2016/0052137	A1 *	2/2016	Hyde	.....	B25J 11/009 701/24
2016/0229058	A1 *	8/2016	Pinter	.....	G06Q 50/22
2016/0332303	A1 *	11/2016	Kirihara	.....	B25J 9/1653

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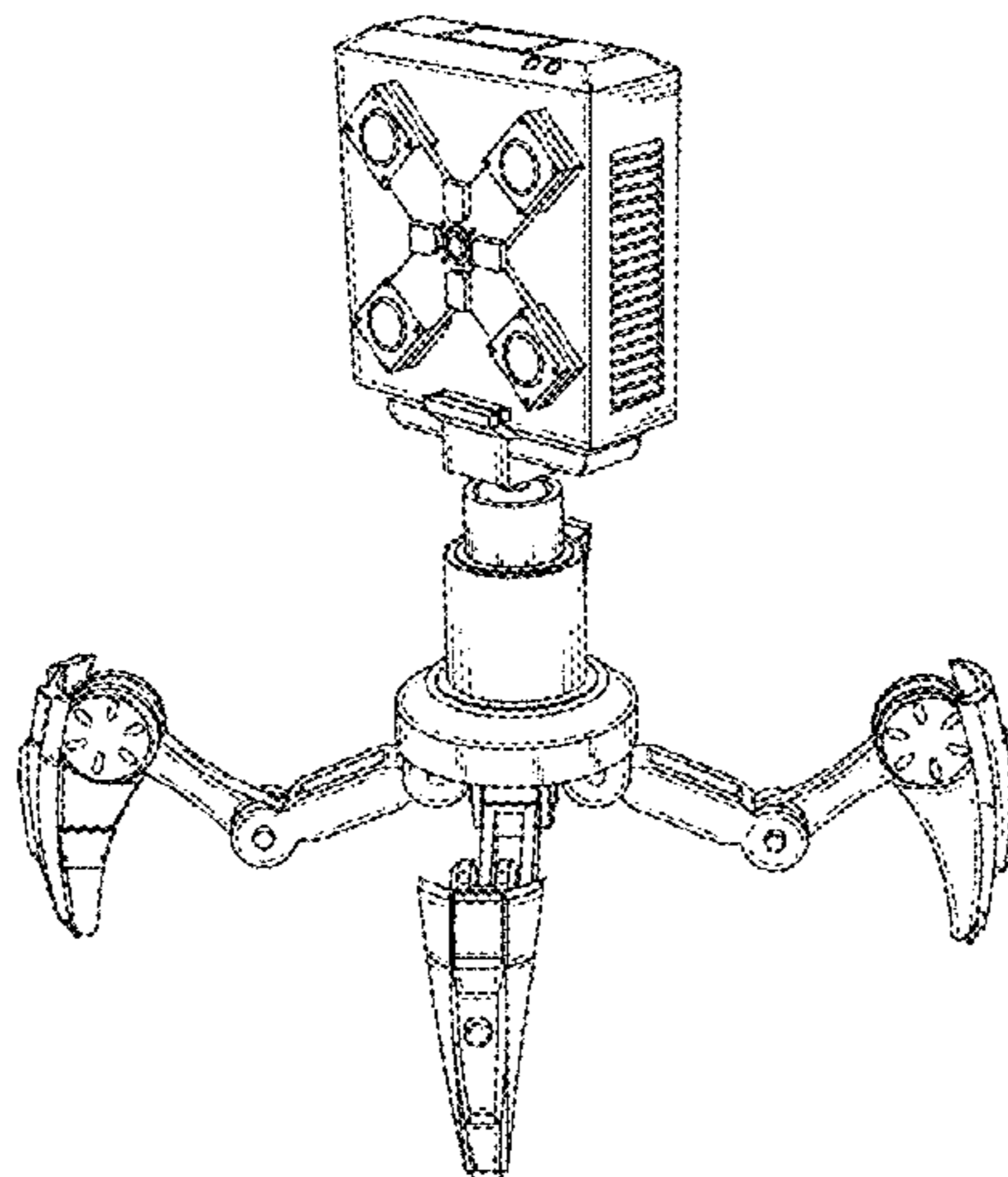
(57) **CLAIM**

I claim the ornamental design for an autonomous indoor scanning robot, as shown and described.

**DESCRIPTION**

FIG. 1 is a top angle perspective view of an autonomous indoor scanning robot showing my new design;  
 FIG. 2 is a perspective view of the autonomous indoor scanning robot showing in FIG. 1;  
 FIG. 3 is a top view of the autonomous indoor scanning robot showing in FIG. 1;  
 FIG. 4 is a bottom view of the autonomous indoor scanning robot showing in FIG. 1;  
 FIG. 5 is a front plan view of the autonomous indoor scanning robot showing in FIG. 1;  
 FIG. 6 is rear view of the autonomous indoor scanning robot showing in FIG. 1;  
 FIG. 7 is a side view of the autonomous indoor scanning robot showing in FIG. 1; and,  
 FIG. 8 is another side view of the autonomous indoor scanning robot showing in FIG. 1.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2017/0065355 A1\* 3/2017 Ross ..... A61B 34/30  
2017/0095382 A1\* 4/2017 Wen ..... G06F 19/3418  
2018/0104829 A1\* 4/2018 Altman ..... B25J 19/005  
2018/0111270 A1\* 4/2018 Hasegawa ..... B25J 9/1633

\* cited by examiner

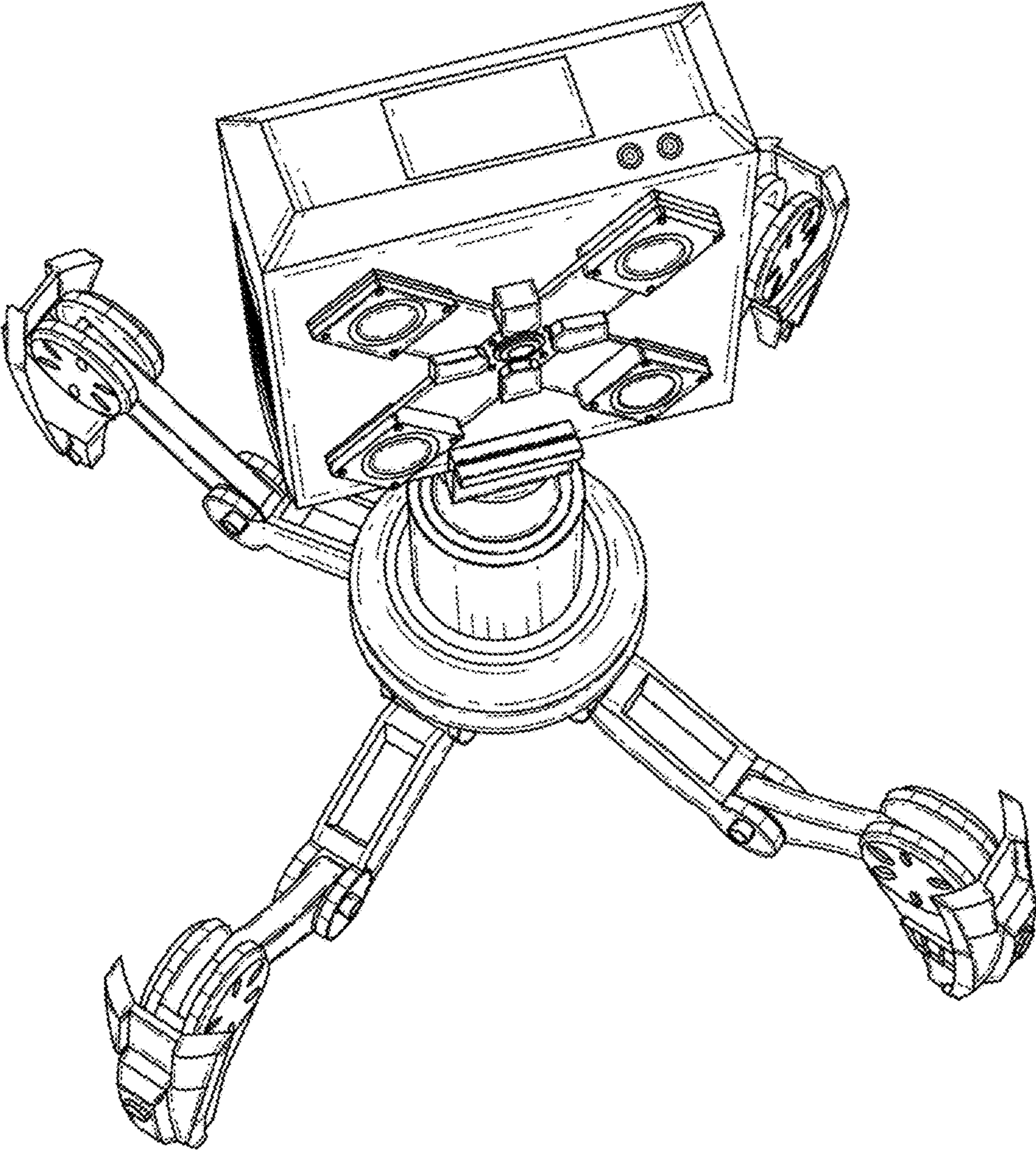


FIG. 1

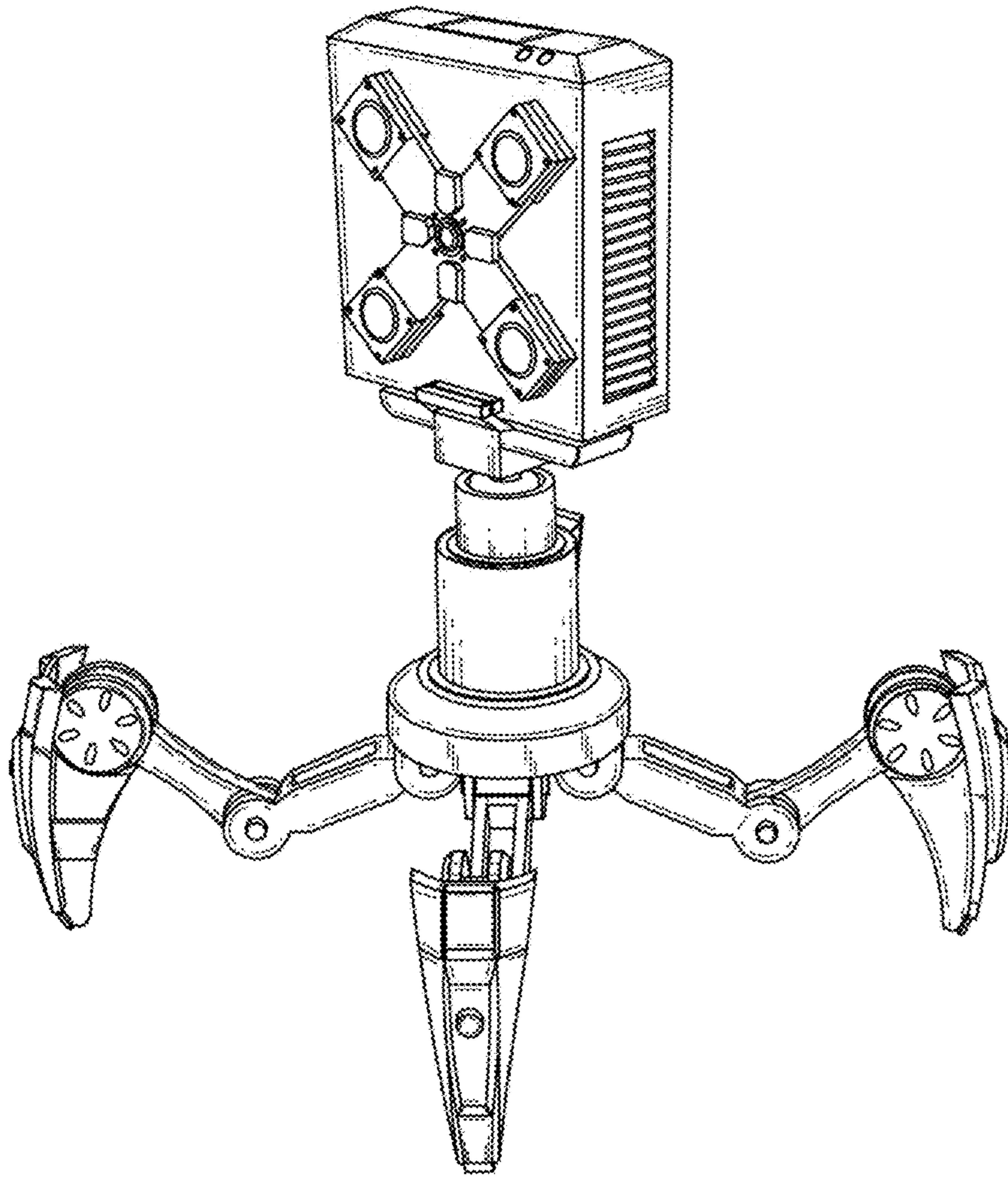


FIG. 2

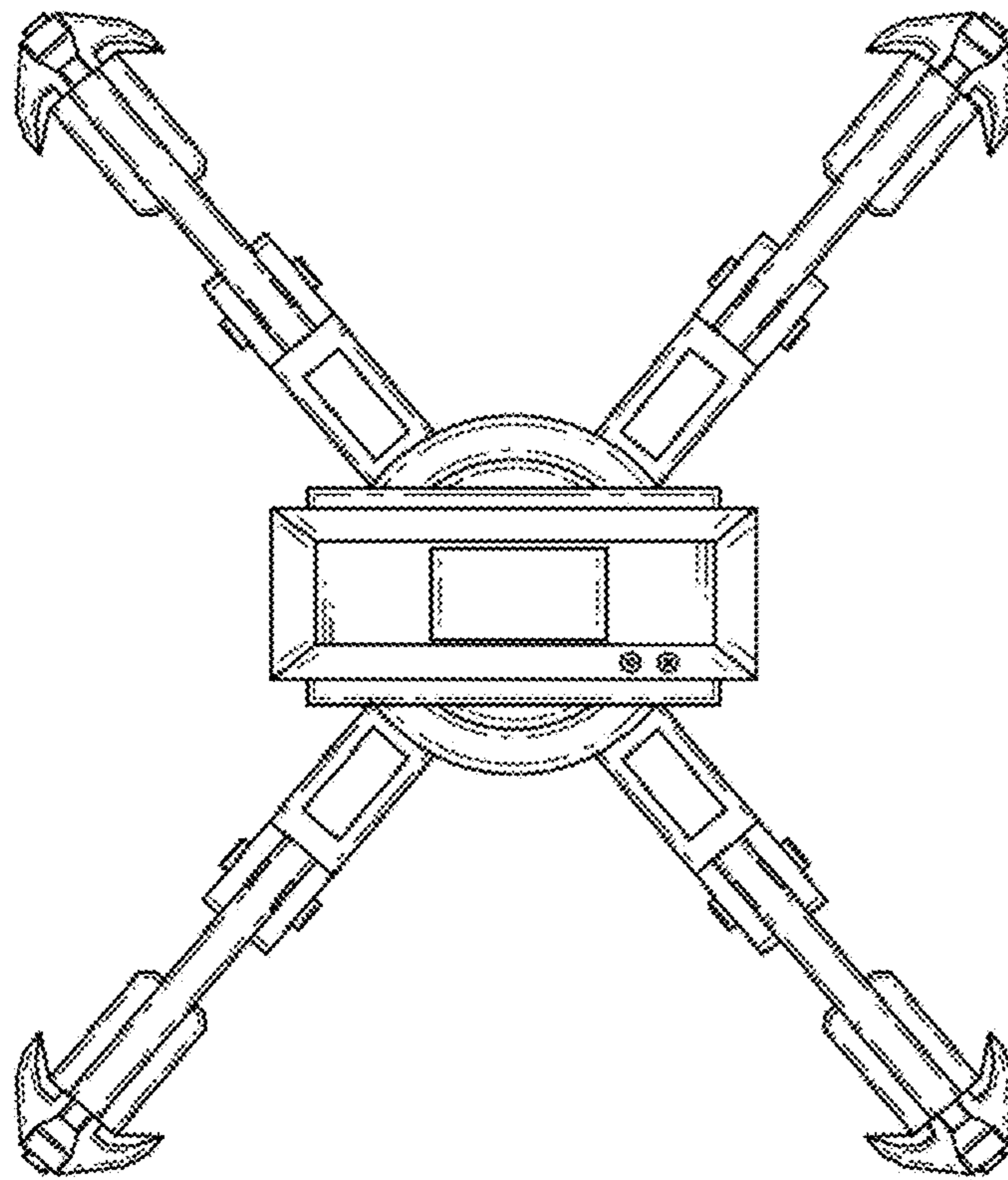


FIG. 3

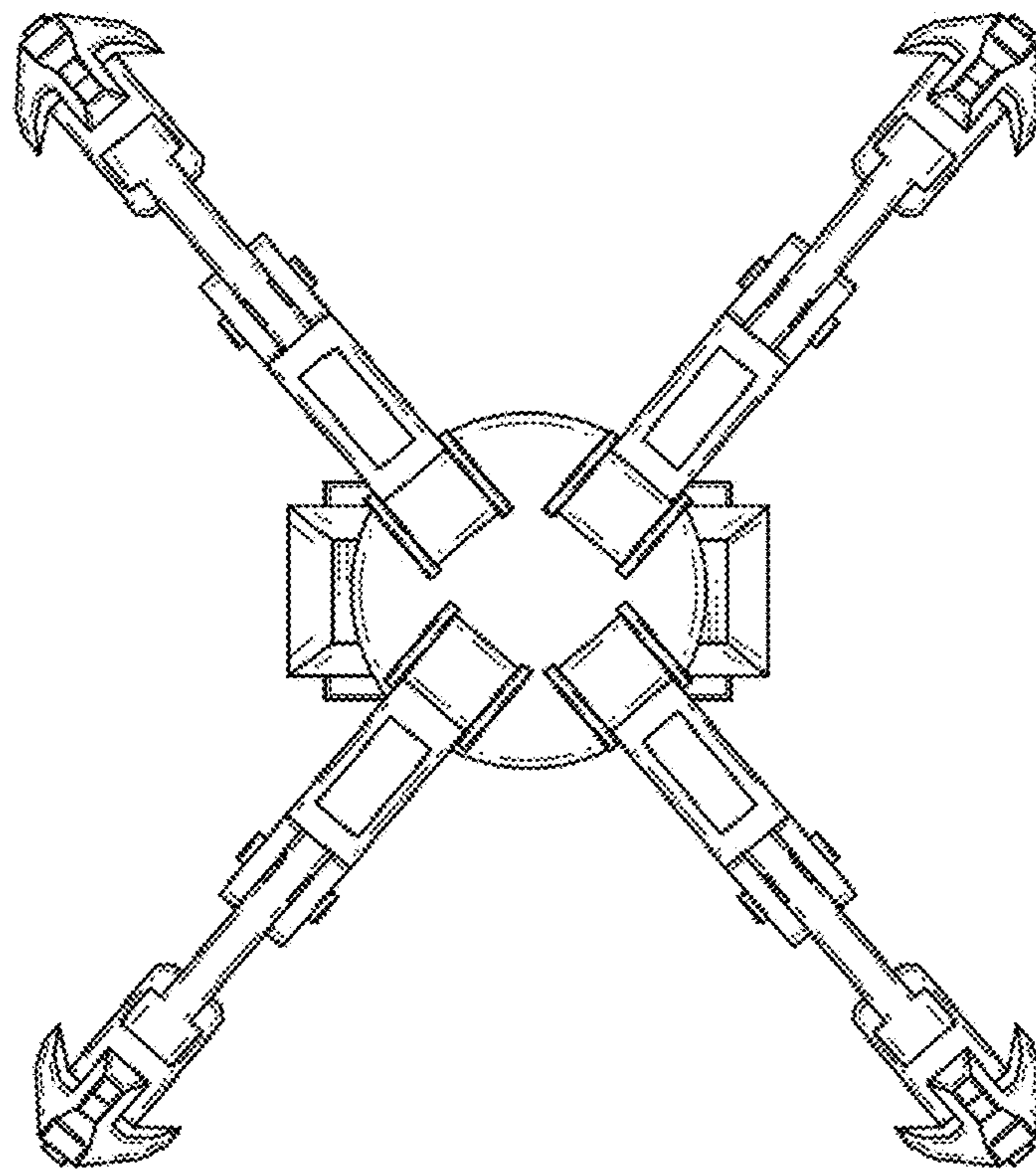


FIG. 4

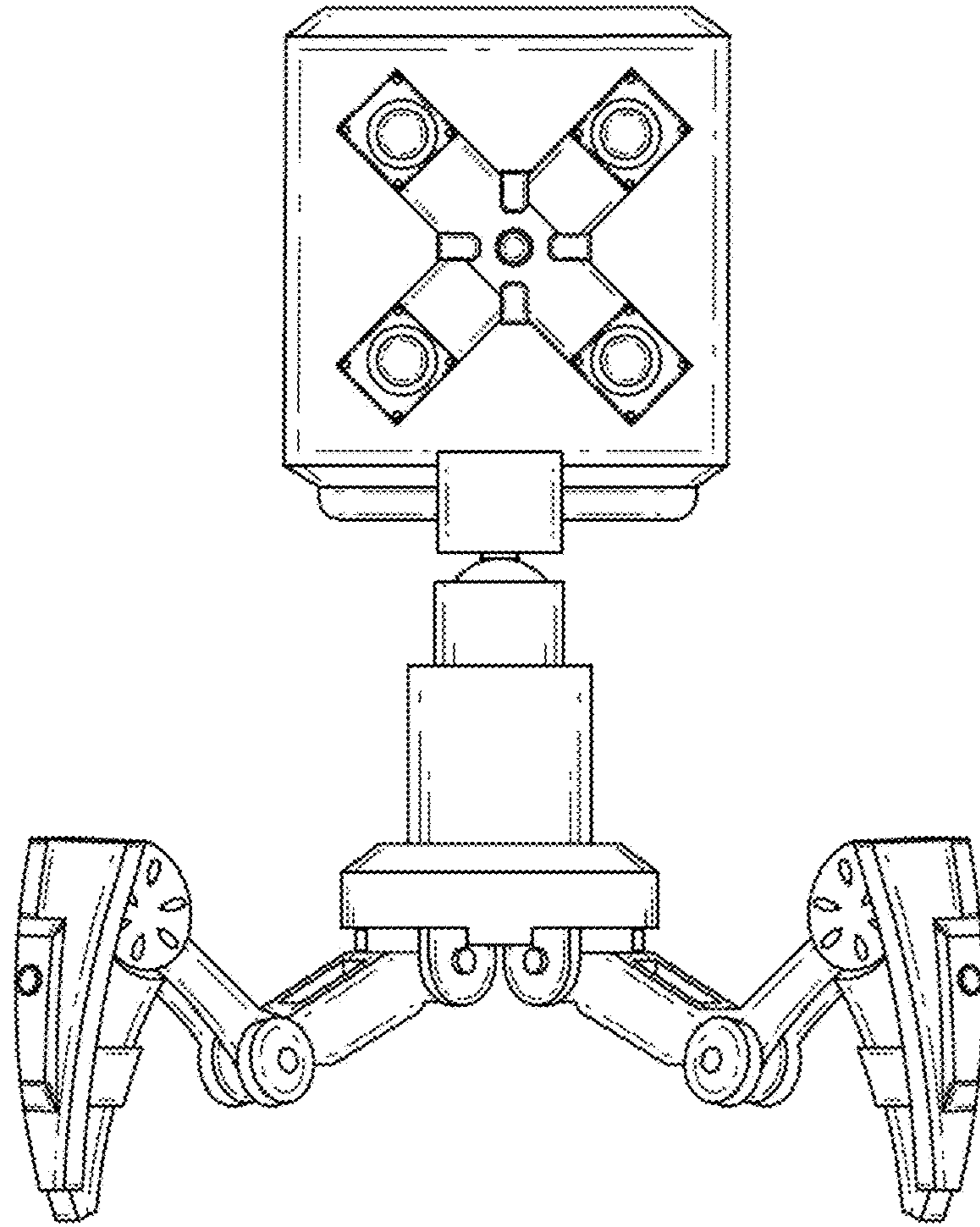


FIG. 5

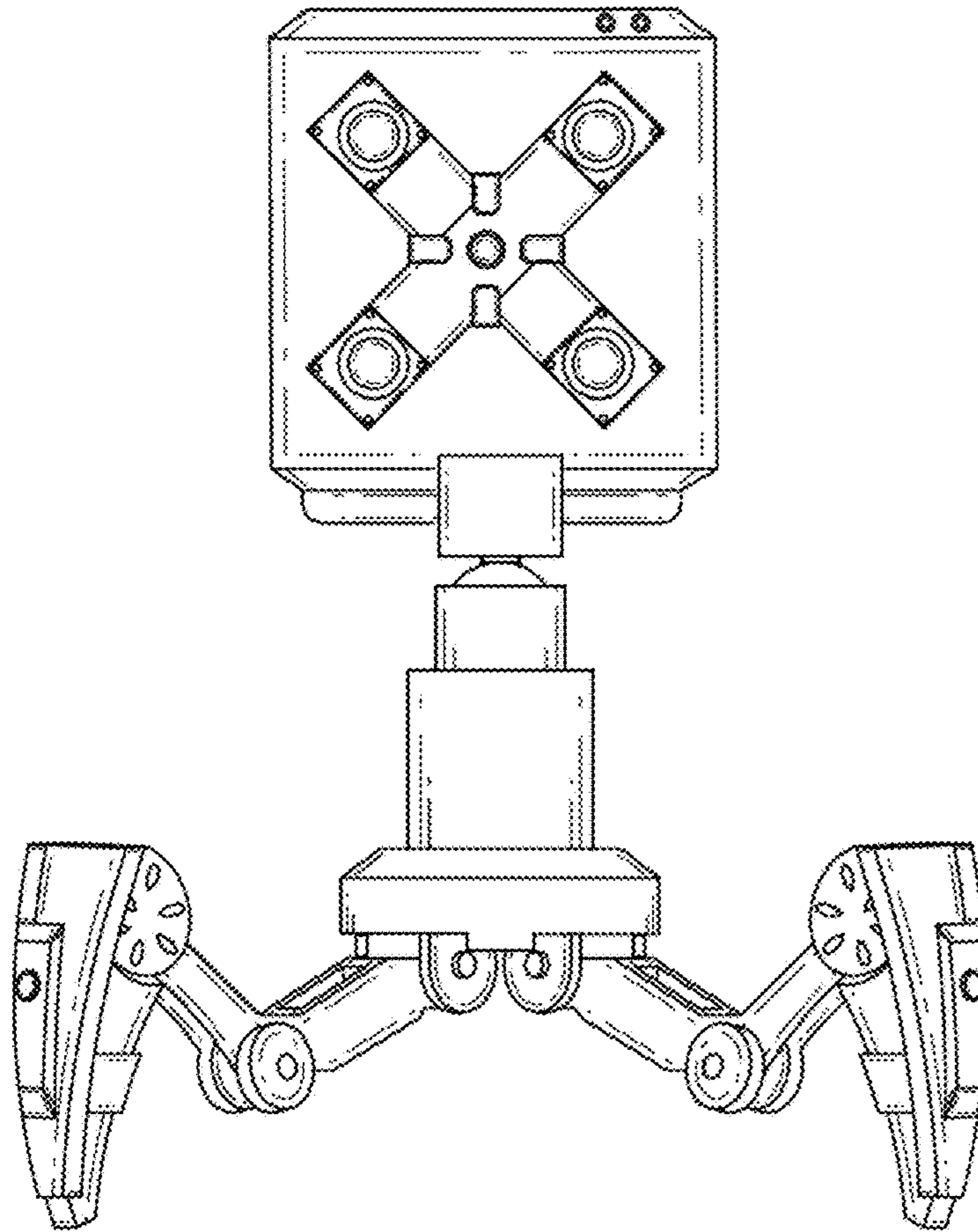


FIG. 6



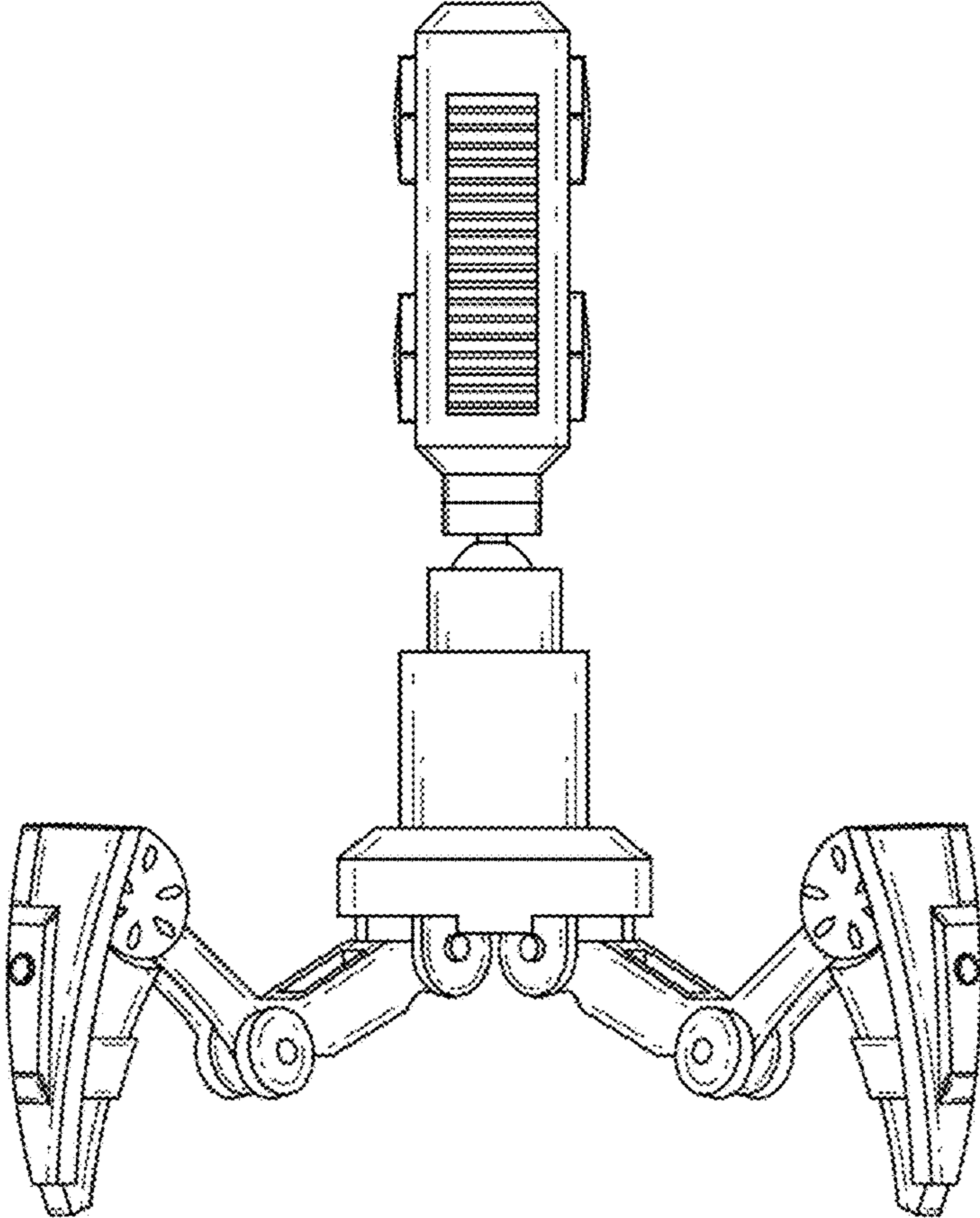


FIG. 7

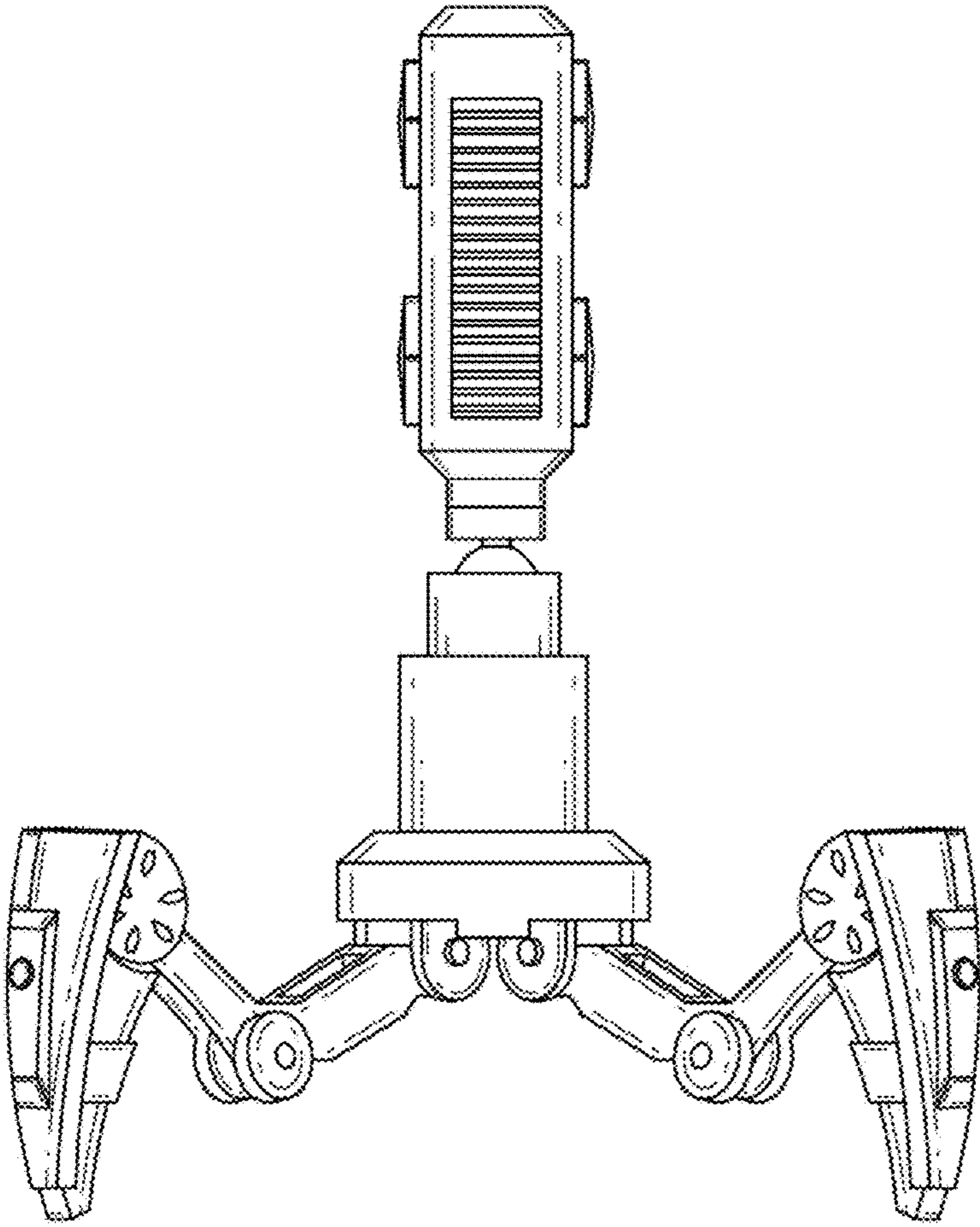


FIG. 8