



US00D941294S

(12) **United States Design Patent**  
**Godoj et al.**

(10) **Patent No.:** **US D941,294 S**  
(45) **Date of Patent:** **\*\* Jan. 18, 2022**

(54) **OPTICAL SCANNER**

D564,922 S \* 3/2008 Ishii ..... D10/66  
D717,185 S \* 11/2014 Forsberg ..... D10/66

(71) Applicant: **NavVis GmbH**, Munich (DE)

(Continued)

(72) Inventors: **Sarah Godoj**, Munich (DE); **Nils Christensen**, Munich (DE); **Mandolin Mardt**, Munich (DE)

**OTHER PUBLICATIONS**

Interview with Georg Schroth, NavVis Co-founder and chief technology office, NavVis VLX mapping system, publication date Aug. 25, 2020, [online] URL: [https://velodynelidar.com/blog/velodyne-navvis-interview-digital-twin-solution/\(Year: 2020\).\\*](https://velodynelidar.com/blog/velodyne-navvis-interview-digital-twin-solution/(Year: 2020).*)

(73) Assignee: **NavVis GmbH**, Munich (DE)

*Primary Examiner* — L. A. Grabenstetter

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

(74) *Attorney, Agent, or Firm* — Paul D. Bianco; Gary S. Winer; Fleit Intellectual Property Law

(21) Appl. No.: **35/510,128**

(57) **CLAIM**

(22) Filed: **Feb. 20, 2020**

The ornamental design for an optical scanner, as shown and described.

(80) **Hague Agreement Data**

**DESCRIPTION**

Int. Filing Date: **Feb. 20, 2020**

1.-3. Optical scanner

Int. Reg. No.: **DM/206393**

Fig. 1.1 is a back view of the first embodiment of an optical scanner according to the present invention;

Int. Reg. Date: **Feb. 20, 2020**

Fig. 1.2 is a left side view of the optical scanner;

Int. Reg. Pub. Date: **Aug. 21, 2020**

Fig. 1.3 is a bottom view of the optical scanner;

(51) **LOC (13) Cl.** ..... **14-02**

Fig. 1.4 is a front view of the optical scanner;

(52) **U.S. Cl.**

Fig. 1.5 is a right side view of the optical scanner;

USPC ..... **D14/420**; D16/210; D10/66

Fig. 1.6 is a perspective view of the optical scanner;

(58) **Field of Classification Search**

USPC ..... D10/50, 65, 66, 70; D13/107, 108, 184;

Fig. 1.7 is a top view of the optical scanner;

D14/203.1, 203.3, 203.7, 248, 250,

Fig. 2.1 is a folded perspective view of a second embodiment of the optical scanner;

D14/315-318, 341, 371, 388, 389, 412,

Fig. 2.2 is an unfolded perspective view of the optical scanner;

D14/420, 427, 453, 217; D16/202, 207,

Fig. 3.1 is a front view of a third embodiment of the optical scanner;

D16/210

Fig. 3.2 is a back view of the optical scanner;

CPC ..... G06K 7/10564; G06K 7/10584; G06K

Fig. 3.3 is a left side view of the optical scanner;

7/10881; G06K 7/10891

Fig. 3.4 is a bottom view of the optical scanner;

See application file for complete search history.

Fig. 3.5 is a right side view of the optical scanner;

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

Fig. 3.6 is a perspective view the optical scanner; and

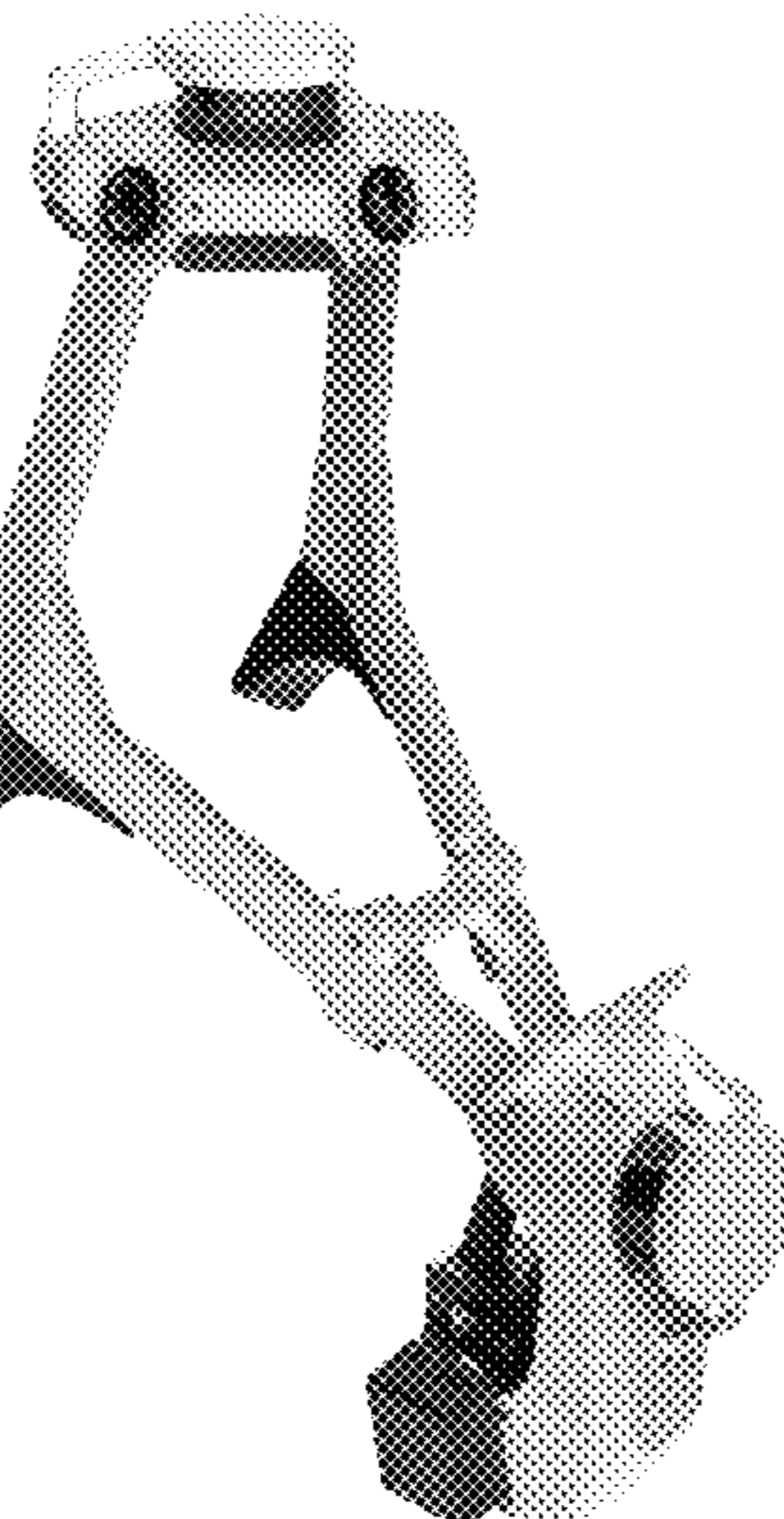
Fig. 3.7 is a top view of the optical scanner.

D273,113 S \* 3/1984 Knoll ..... D14/420

**1 Claim, 16 Drawing Sheets**

D296,328 S \* 6/1988 Austin ..... D14/423

5,742,420 A \* 4/1998 Peng ..... G06K 7/10693



235/462.38

(56)

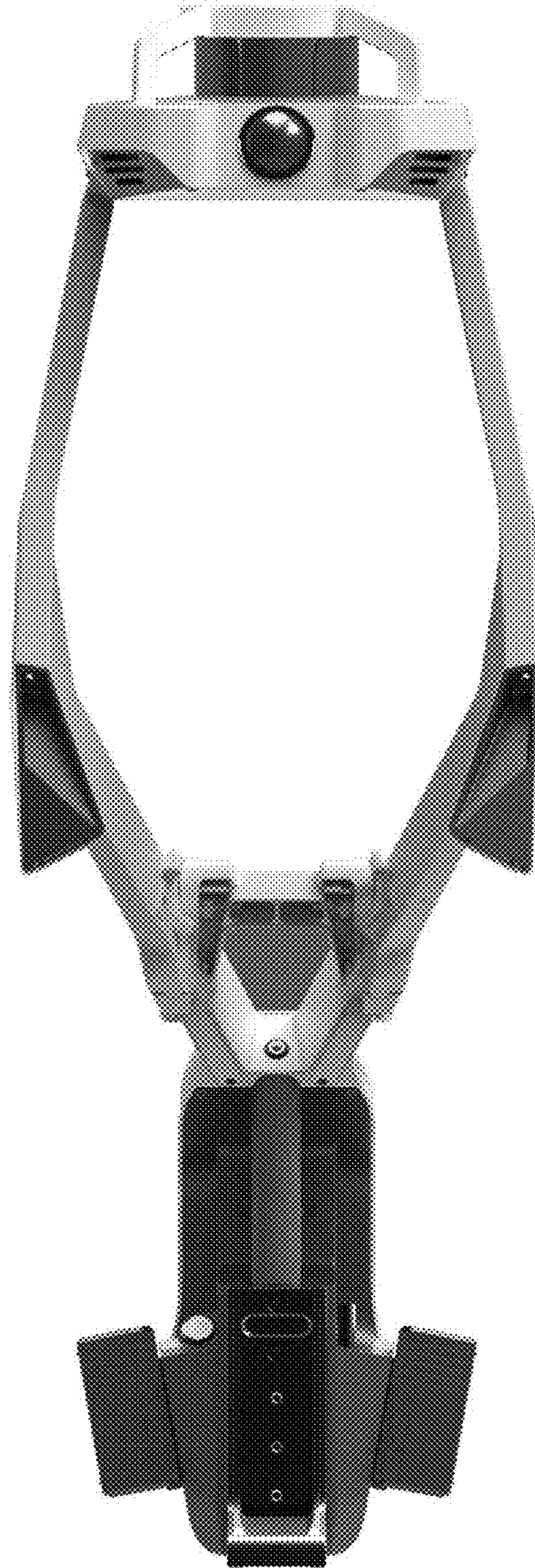
**References Cited**

U.S. PATENT DOCUMENTS

D766,755	S	*	9/2016	Ishii	.....	D10/66
D810,171	S	*	2/2018	Kim	.....	D16/206
D821,479	S	*	6/2018	Cabral	.....	D16/207
D841,717	S	*	2/2019	Wei	.....	D16/210
D842,140	S	*	3/2019	Kato	.....	D10/66
D871,412	S	*	12/2019	Aprile	.....	D14/420
D872,160	S	*	1/2020	Li	.....	D16/210
D887,471	S	*	6/2020	Chen	.....	D16/202
D909,896	S	*	2/2021	Jaschke	.....	D10/66
D910,106	S	*	2/2021	Jeong	.....	D16/202
2020/0053260	A1	*	2/2020	Qi	.....	G02B 27/644

\* cited by examiner

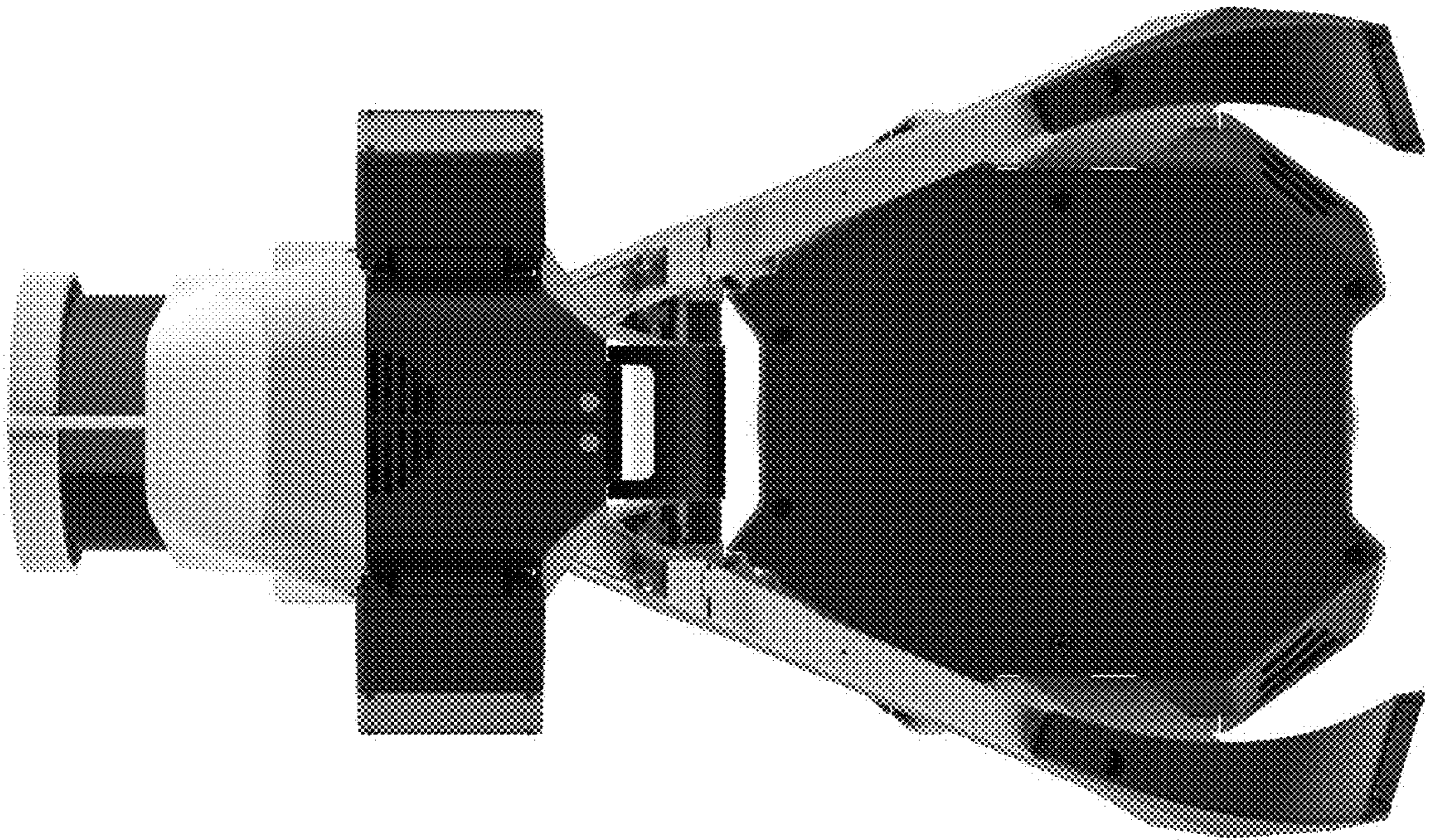
1.1



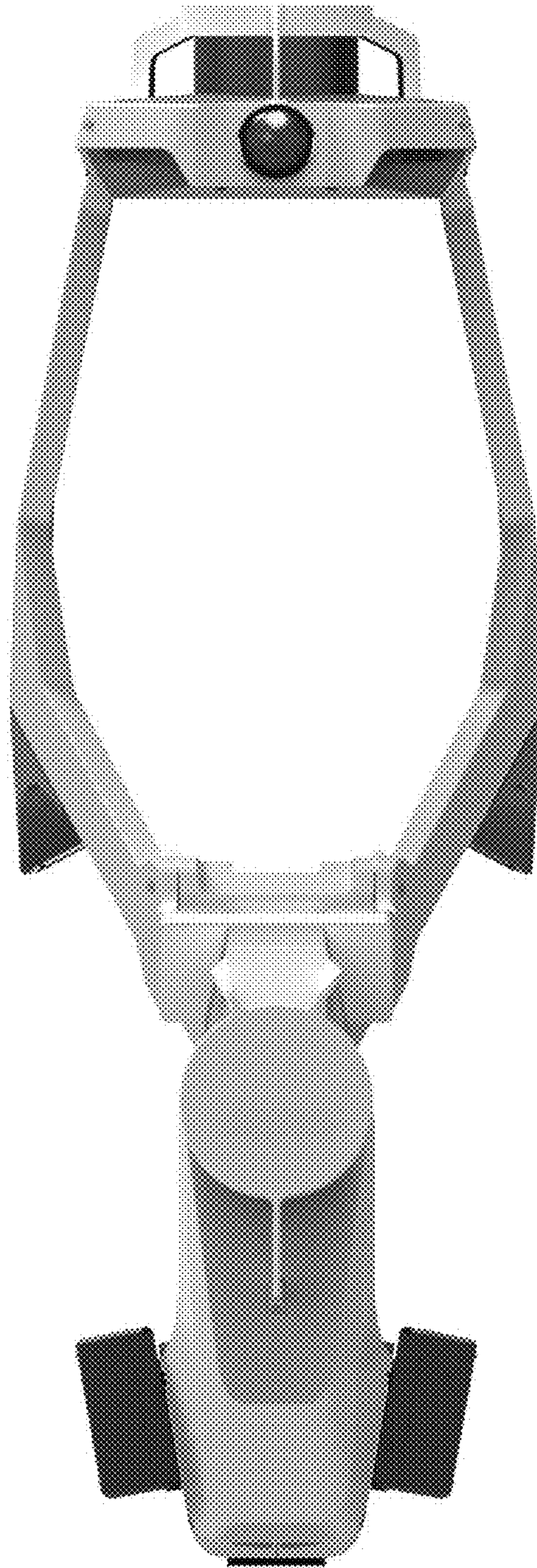
1.2



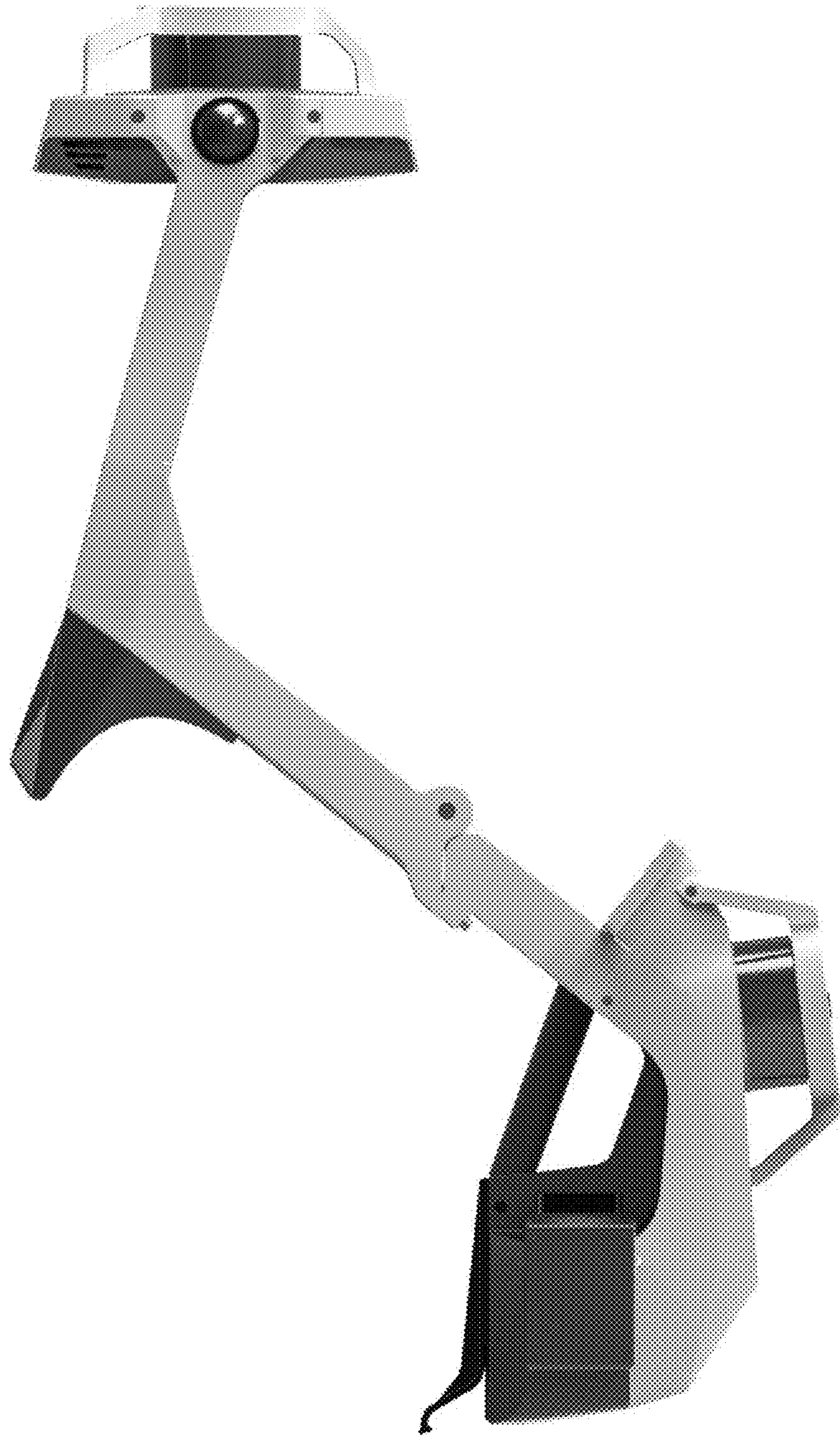
1.3



1.4



1.5

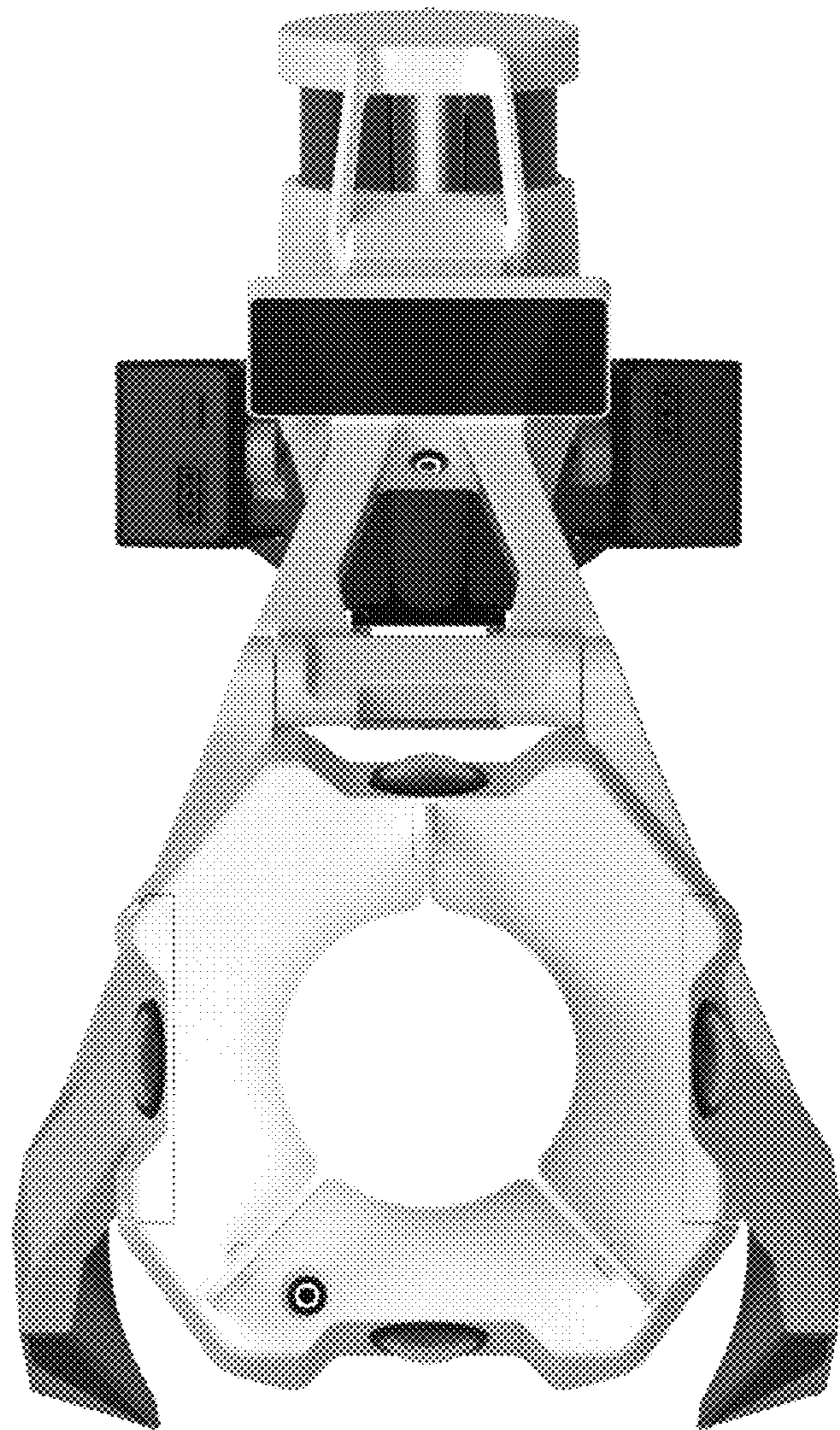


1.6

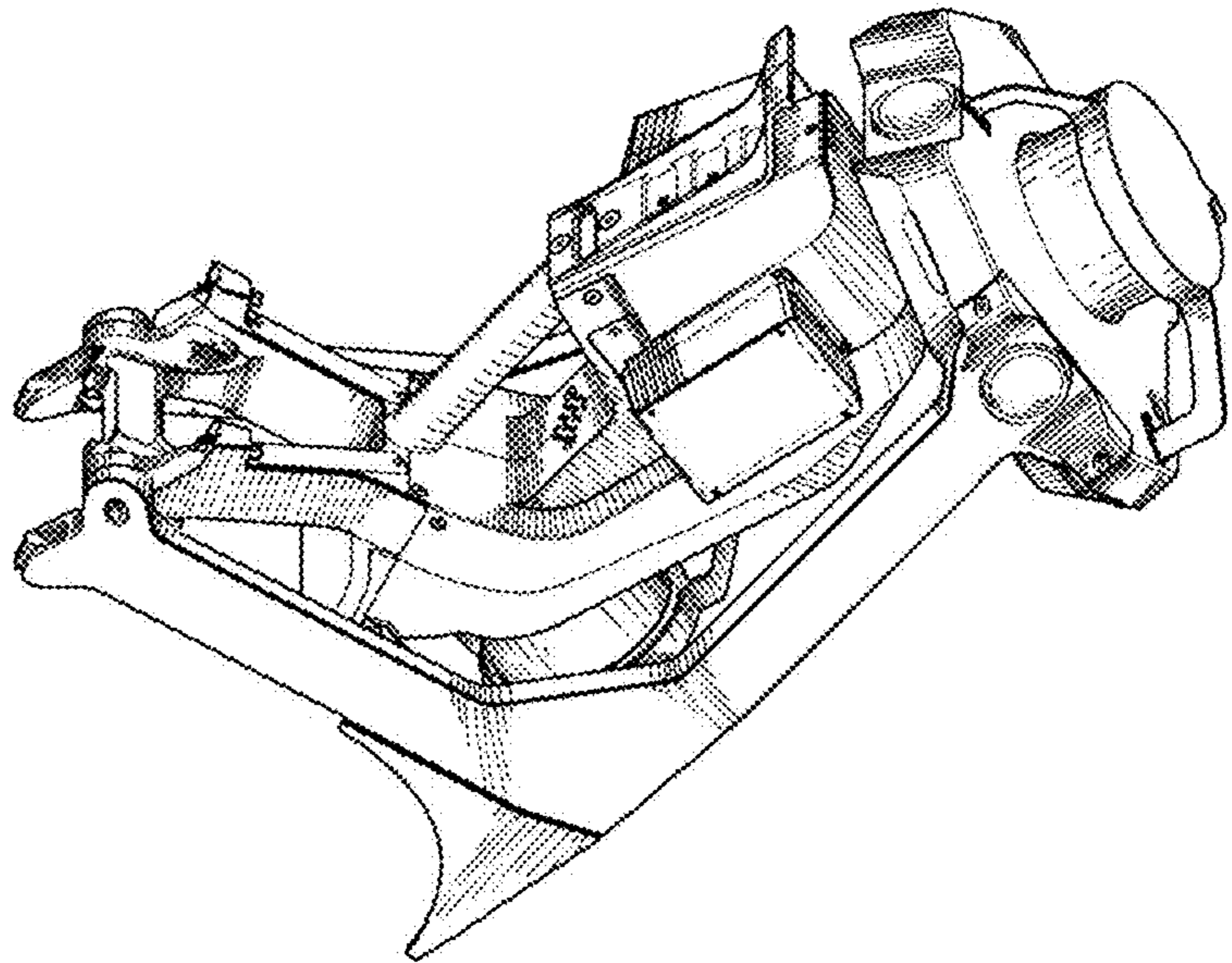




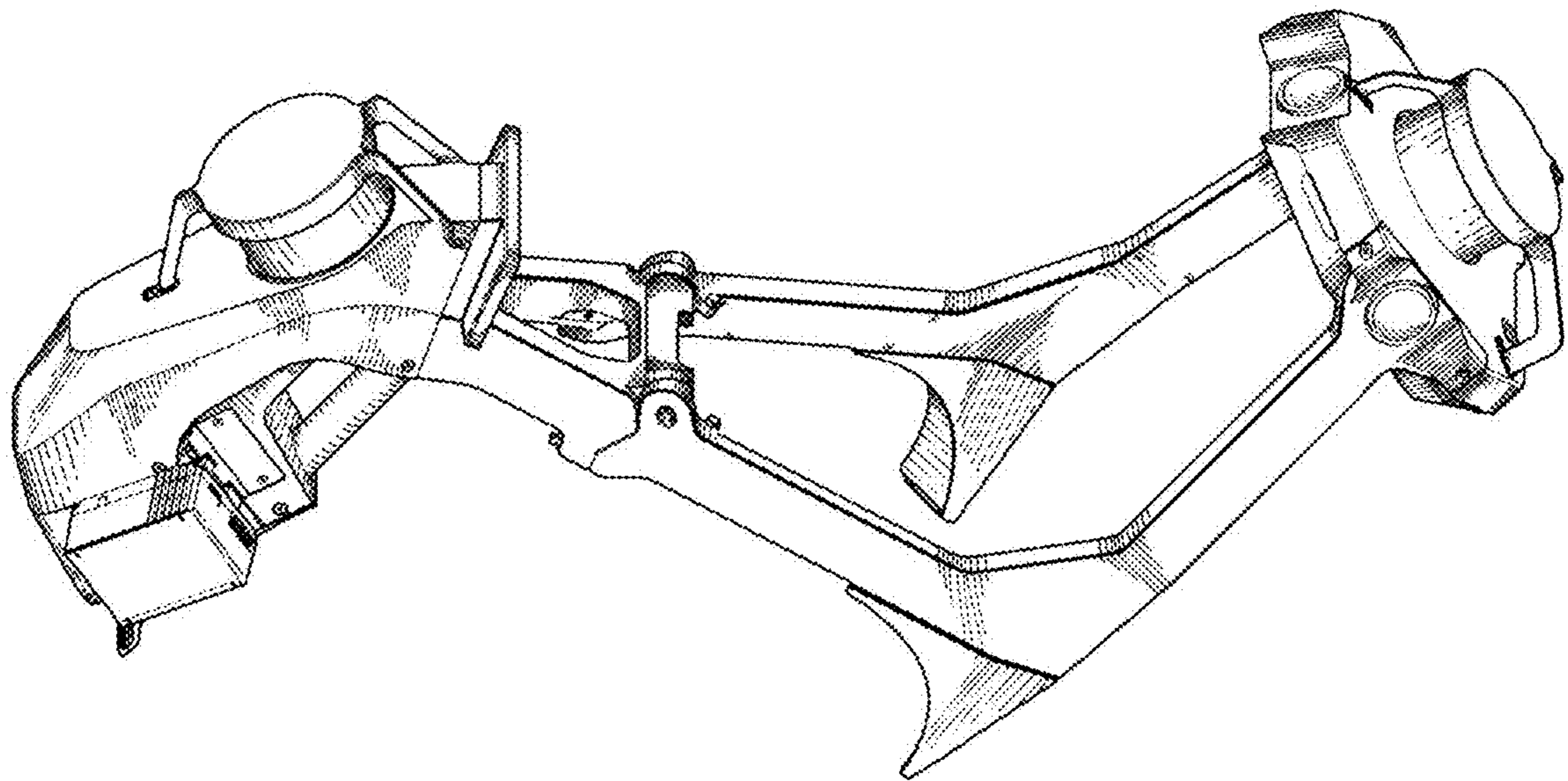
1.7



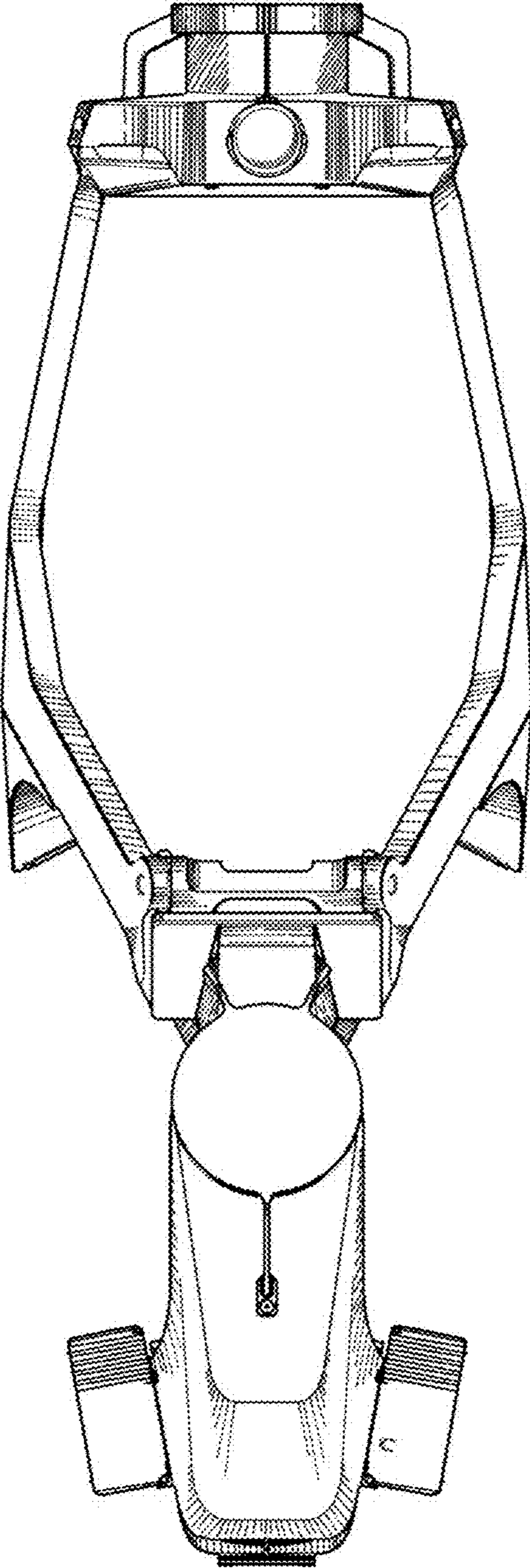
2.1



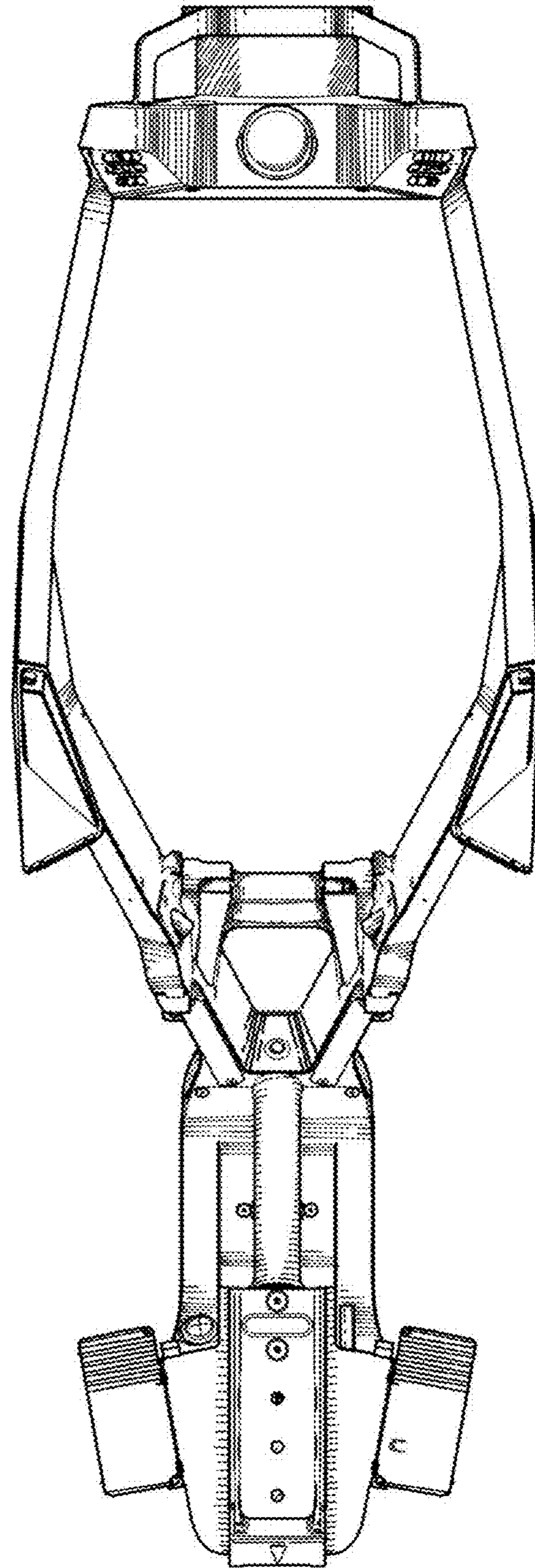
2.2



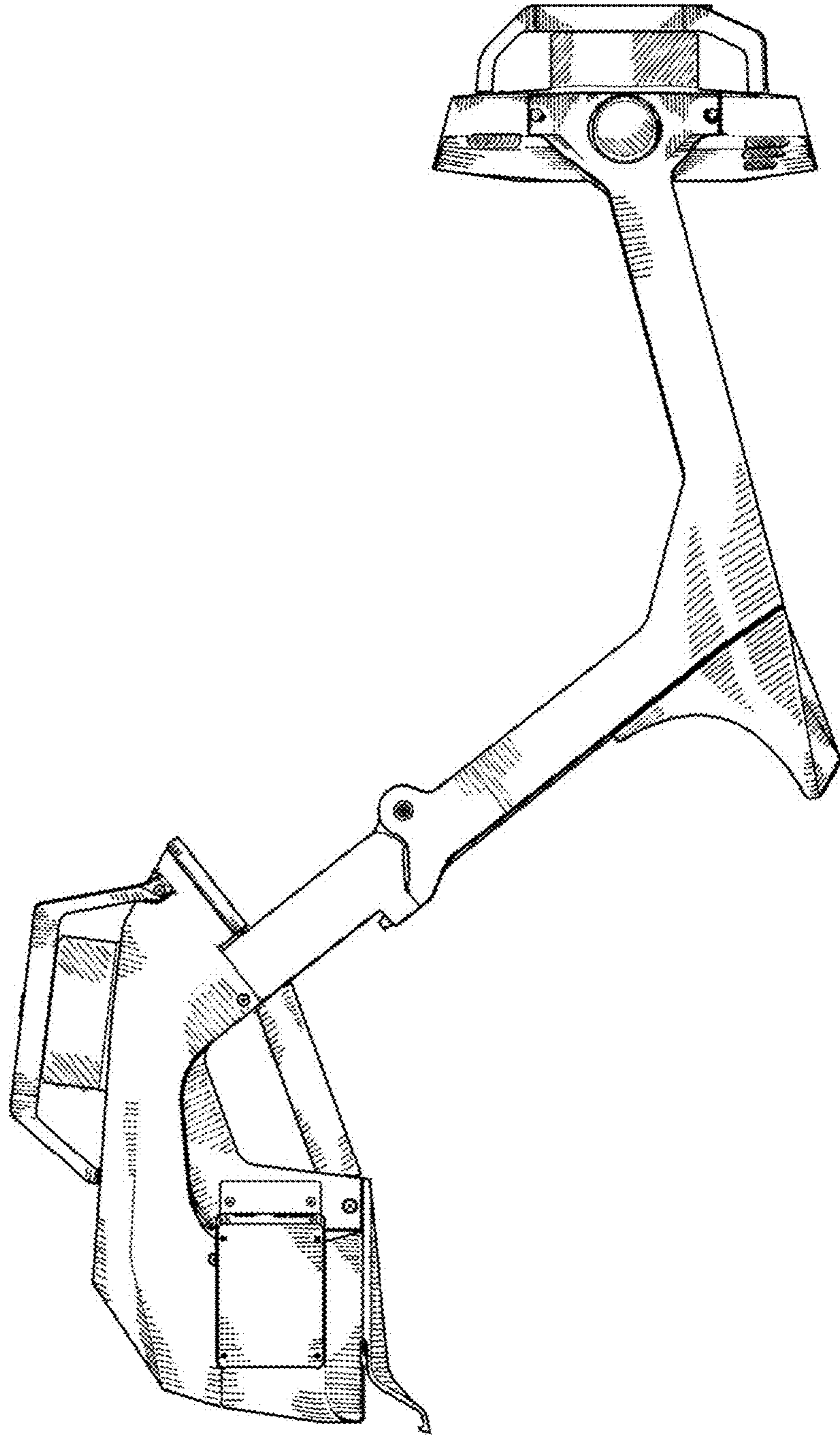
3.1



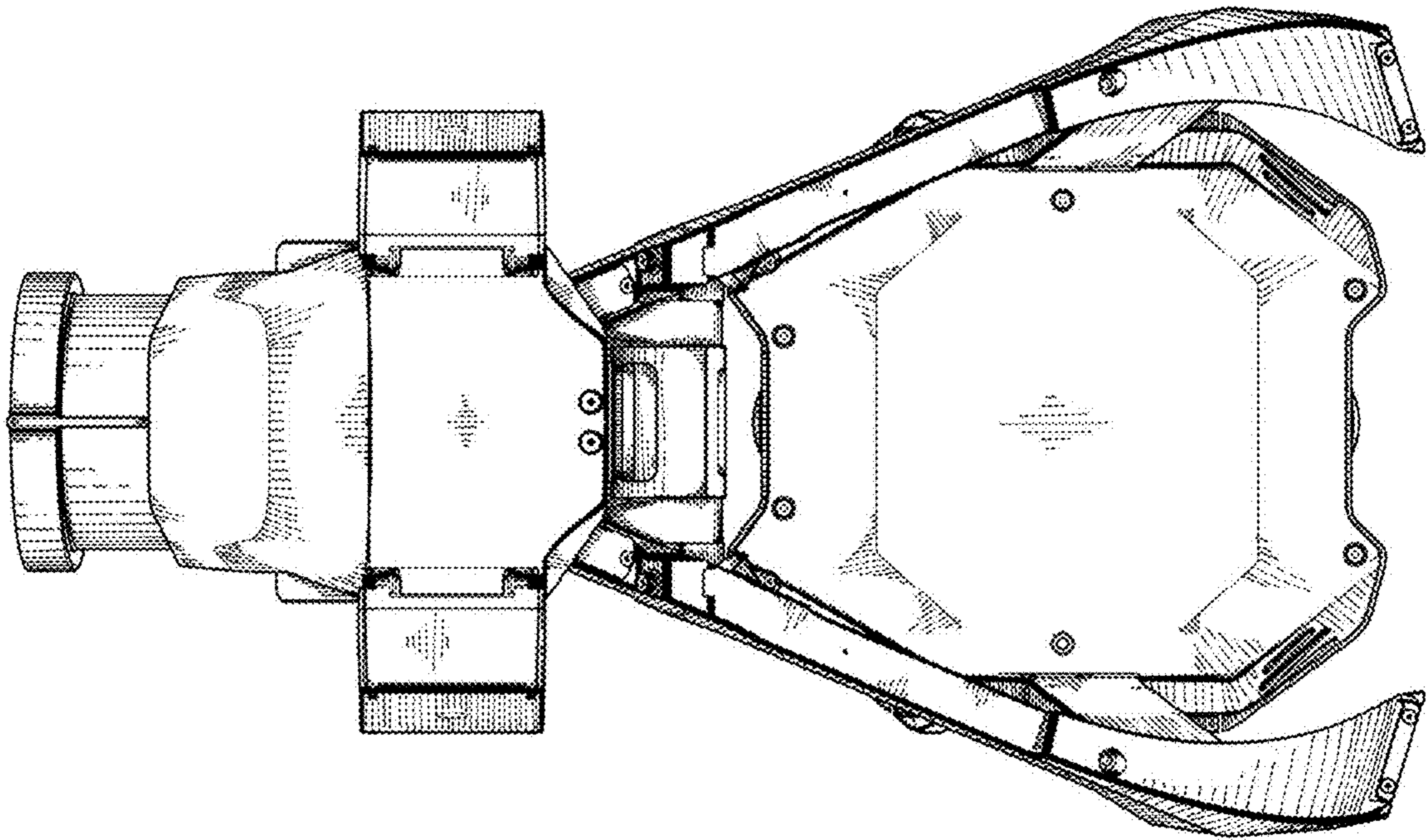
3.2



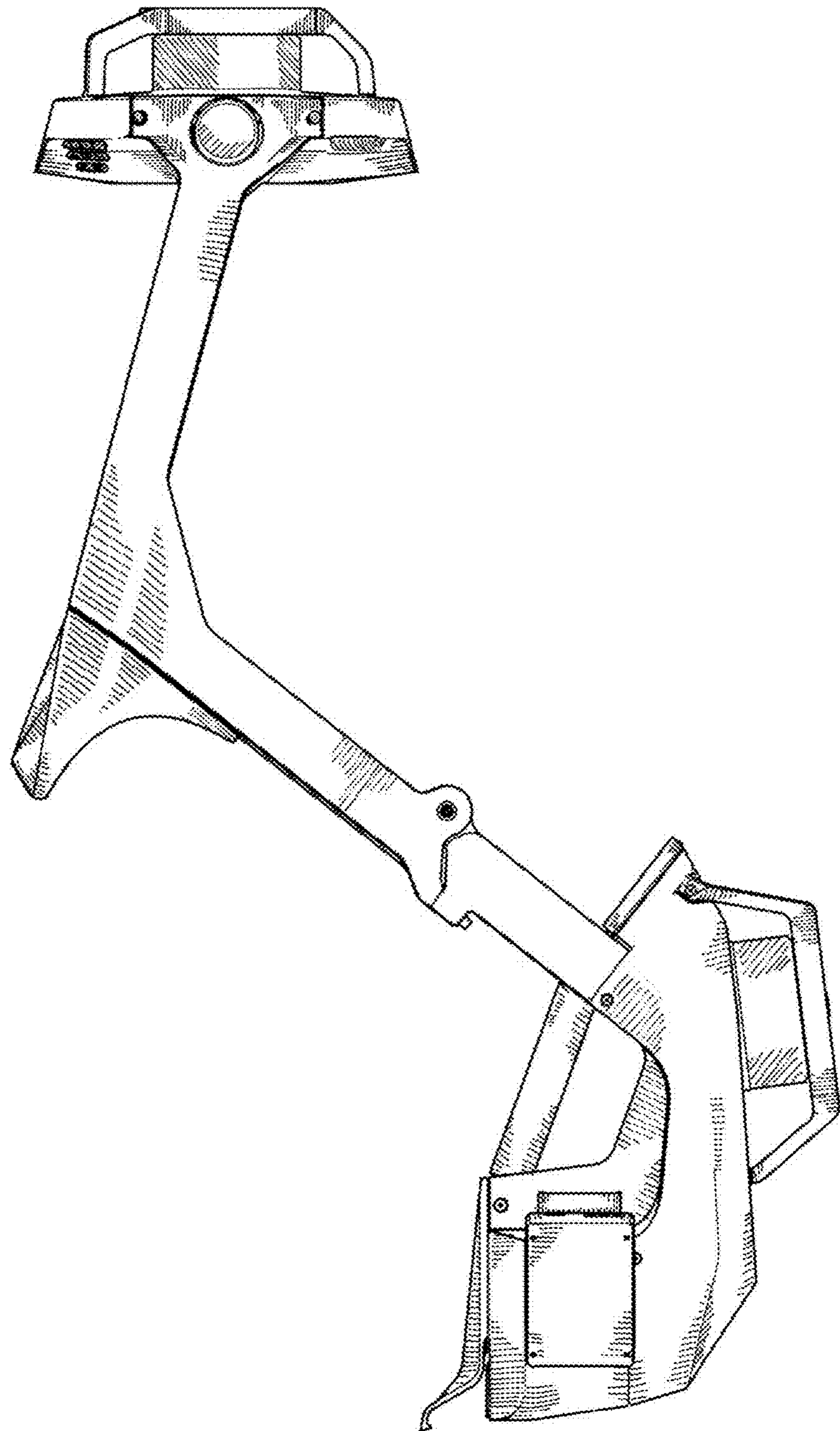
3.3



3.4

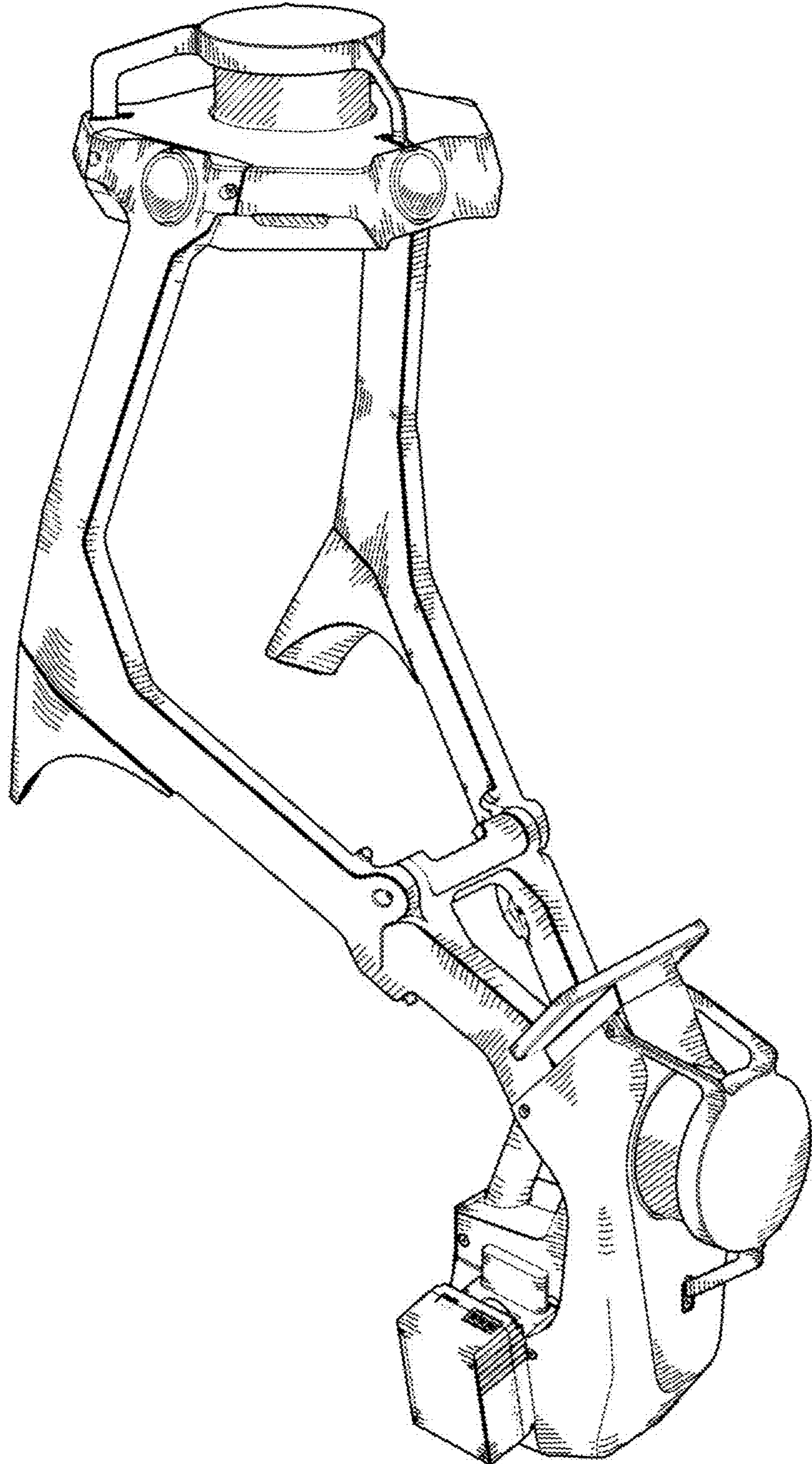


3.5





3.6



3.7

