



US00D770122S

(12) **United States Design Patent** (10) **Patent No.:** **US D770,122 S**
Mayer (45) **Date of Patent:** **** Oct. 25, 2016**

(54) **RATCHET LEVER HOISTS**

(71) Applicant: **COLUMBUS MCKINNON**
INDUSTRIAL PRODUCTS GMBH,
Wuppertal (DE)

(72) Inventor: **Hannes Mayer,** Wuppertal (DE)

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

(21) Appl. No.: **35/500,015**

(22) Filed: **Jun. 2, 2015**

(80) **Hague Agreement Data**

Int. Filing Date: **Jun. 2, 2015**

Int. Reg. No.: **DM/086602**

Int. Reg. Date: **Jun. 2, 2015**

Int. Reg. Pub. Date: **Jun. 19, 2015**

(51) **LOC (10) Cl.** **12-05**

(52) **U.S. Cl.**
USPC **D34/33**

(58) **Field of Classification Search**

USPC D34/28, 33; 254/372, 270, 346, 350,
254/266, 359, 366, 276, 360, 268, 390, 334,
254/389, 358, 405; 477/22; 248/339;
318/743, 749

CPC B66D 1/46; B66D 1/36; B66D 1/7489;
B66D 1/04; B66D 1/14; B66D 1/20; B66D
1/225; B66D 1/30; B66D 1/34; B66D 1/485;
B66D 3/18; B66D 3/20; B66D 3/04; B66D
3/16; B66D 3/06; B66D 5/30

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D220,772 S * 5/1971 Hawkins et al. D34/33
4,218,046 A * 8/1980 Bathum, Jr. B66D 1/58
254/266

(Continued)

Primary Examiner — Cynthia Ramirez

(57) **CLAIM**

The ornamental design for a ratchet lever hoists, as shown and described.

DESCRIPTION

The file of this patent contains at least one drawing/photograph executed in color. Copies of this patent with color drawing(s)/photograph(s) will be provided by the Office upon request and payment of the necessary fee.

1.-3. Ratchet lever hoists

1.1 : Left

1.2 : Right

1.3 : Front

1.4 : Back

1.5 : Top

1.6 : Bottom

1.7 : Perspective

1.8 : Perspective

1.9 : Perspective

1.10 : Perspective

2.1 : Left

2.2 : Right

2.3 : Front

2.4 : Back

2.5 : Front

2.6 : Bottom

2.7 : Perspective

2.8 : Perspective

2.9 : Perspective

2.10 : Perspective

3.1 : Left

3.2 : Right

3.3 : Front

3.4 : Back

3.5 : Top

3.6 : Bottom

3.7 : Perspective

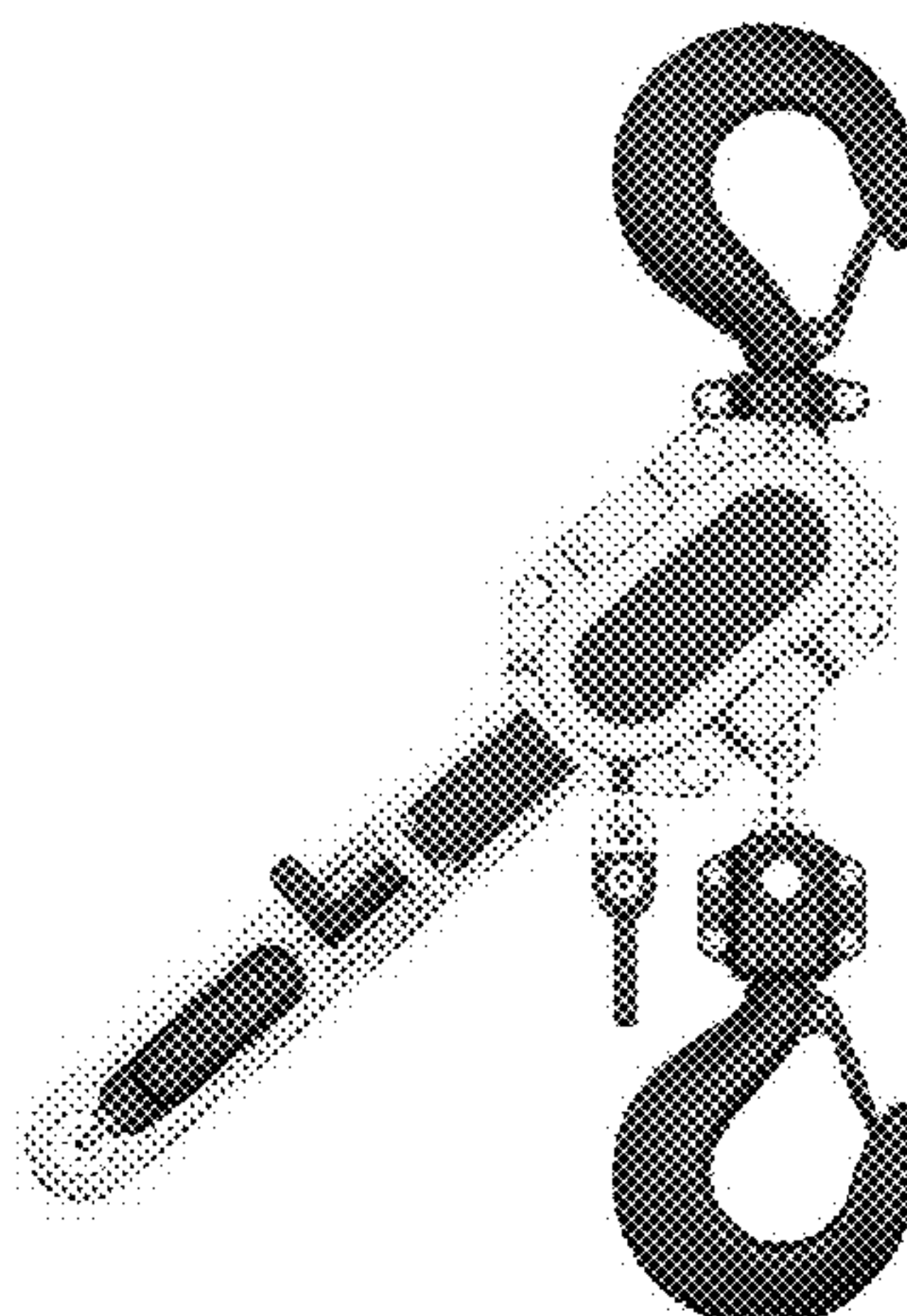
3.8 : Perspective

3.9 : Perspective

3.10 : Perspective

The handle is shown in an alternate position of it being outside of the lever arm in FIGS. 1.8, 1.10, 2.8, 2.10, 3.8 and 3.10 for convenience of illustration.

1 Claim, 30 Drawing Sheets
(30 of 30 Drawing Sheet(s) Filed in Color)



(56)

References Cited

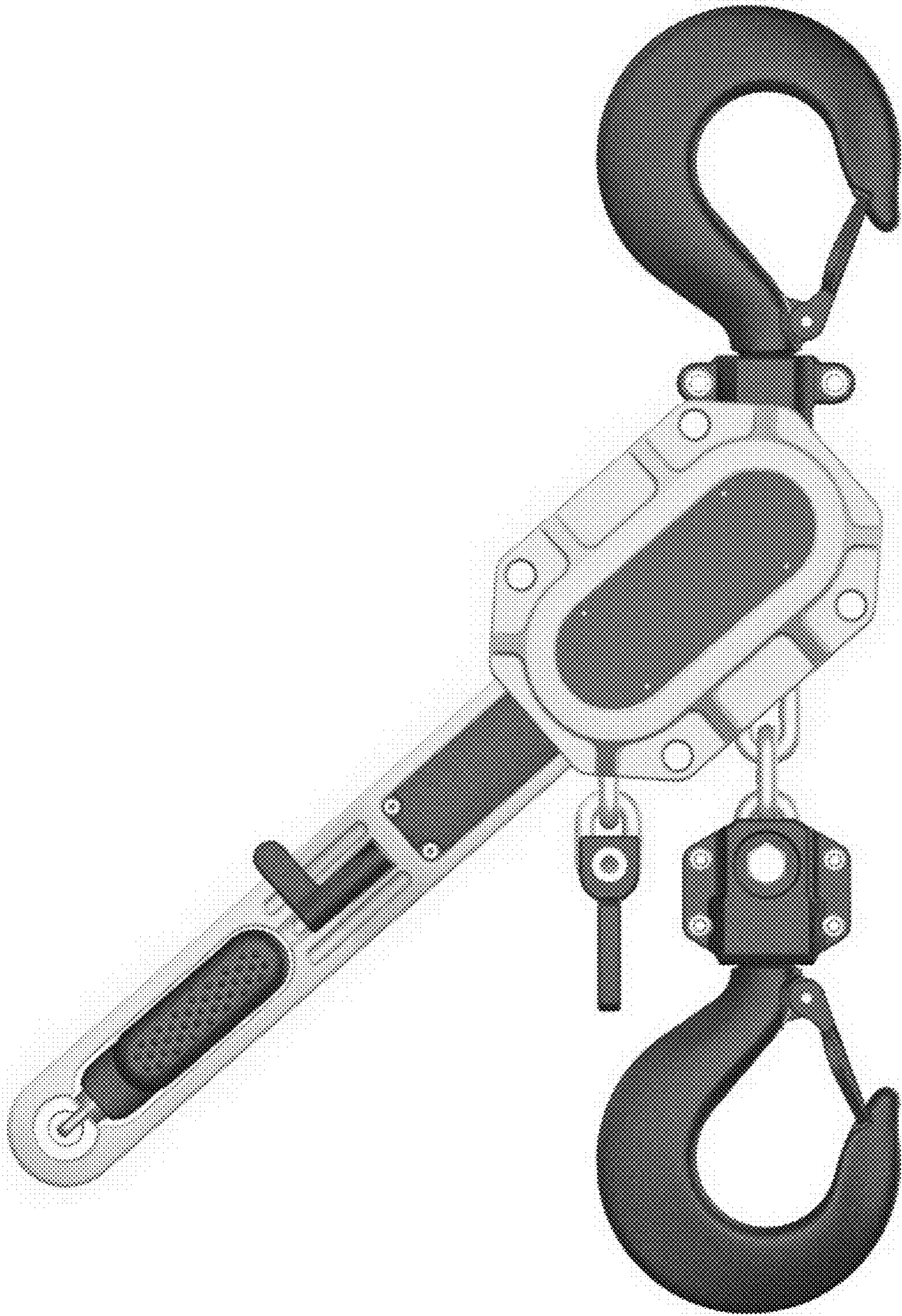
U.S. PATENT DOCUMENTS

D307,659 S * 5/1990 Kobayashi D34/28
D315,976 S * 4/1991 Shieh D34/33
5,007,617 A * 4/1991 Nishimura B66D 3/14
254/358
D347,508 S * 5/1994 Kubota D34/33
D377,555 S * 1/1997 Ueno D34/33
D407,175 S * 3/1999 Nishimura D34/28

D421,172 S * 2/2000 Mizutani D34/33
D524,508 S * 7/2006 Lichtenvort D34/33
D540,003 S * 4/2007 Hagihara D34/33
7,344,121 B1 * 3/2008 Pan B66D 1/58
254/346
D597,724 S * 8/2009 Rumreich D34/33
7,614,610 B2 * 11/2009 Xia B66D 3/16
254/358
D705,515 S * 5/2014 Bernard D34/33
D744,188 S * 11/2015 van der Zijde D34/33

* cited by examiner

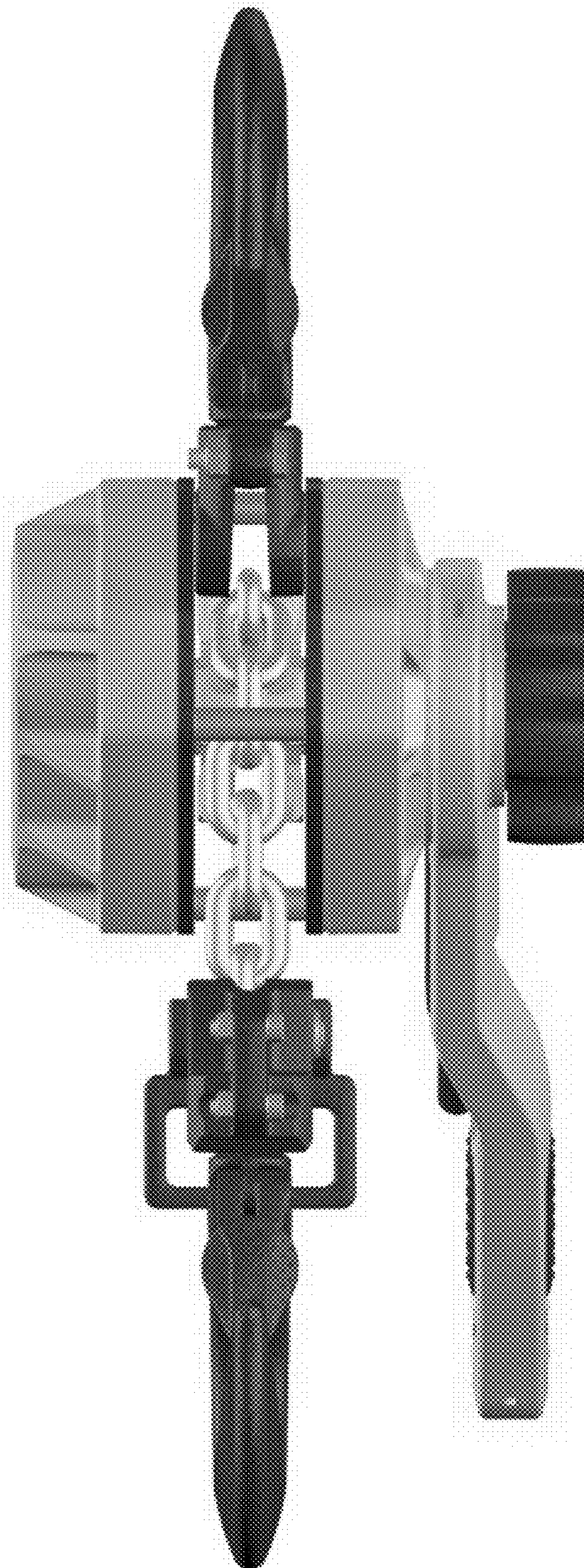
1.1



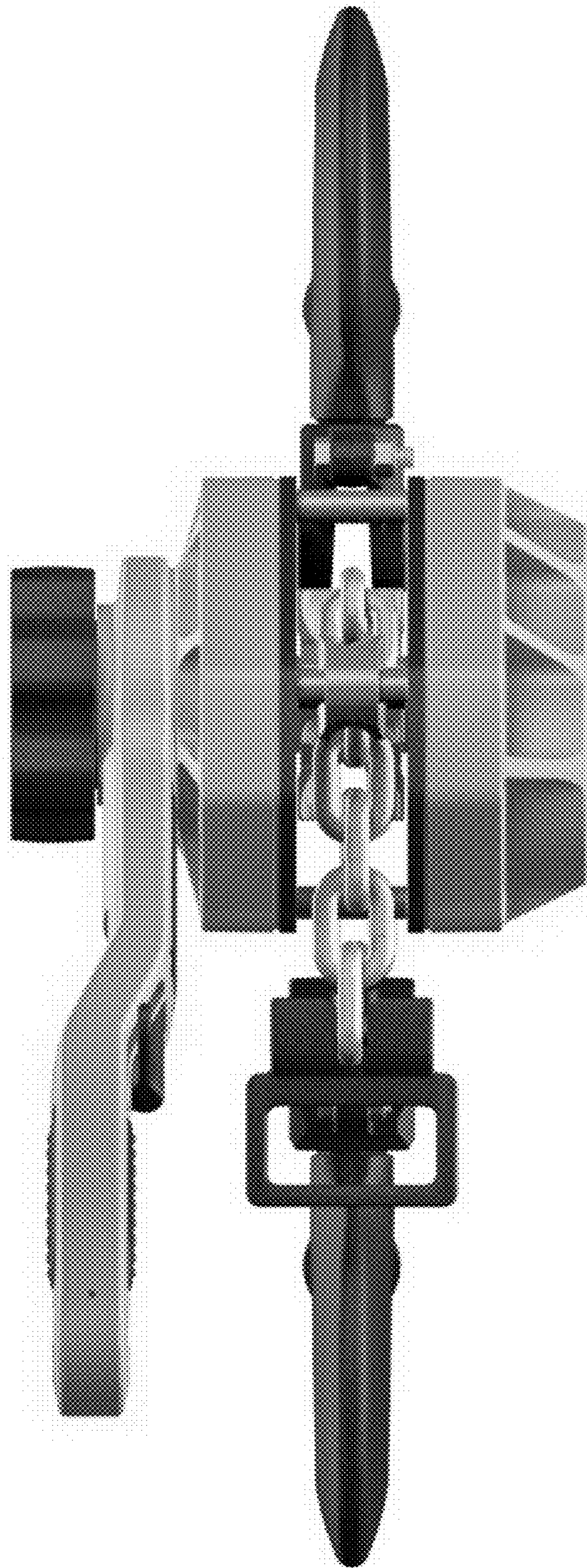
1.2



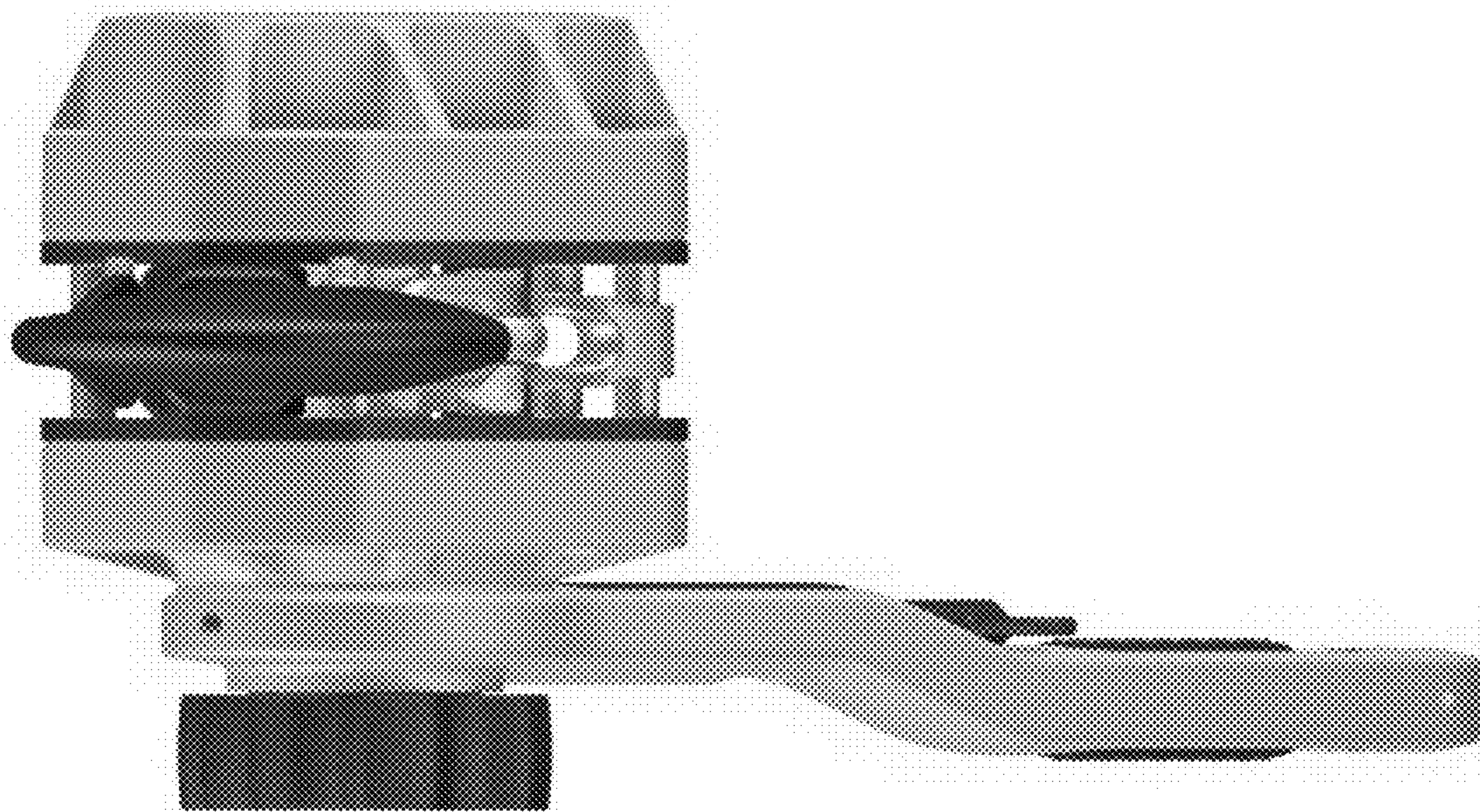
1.3



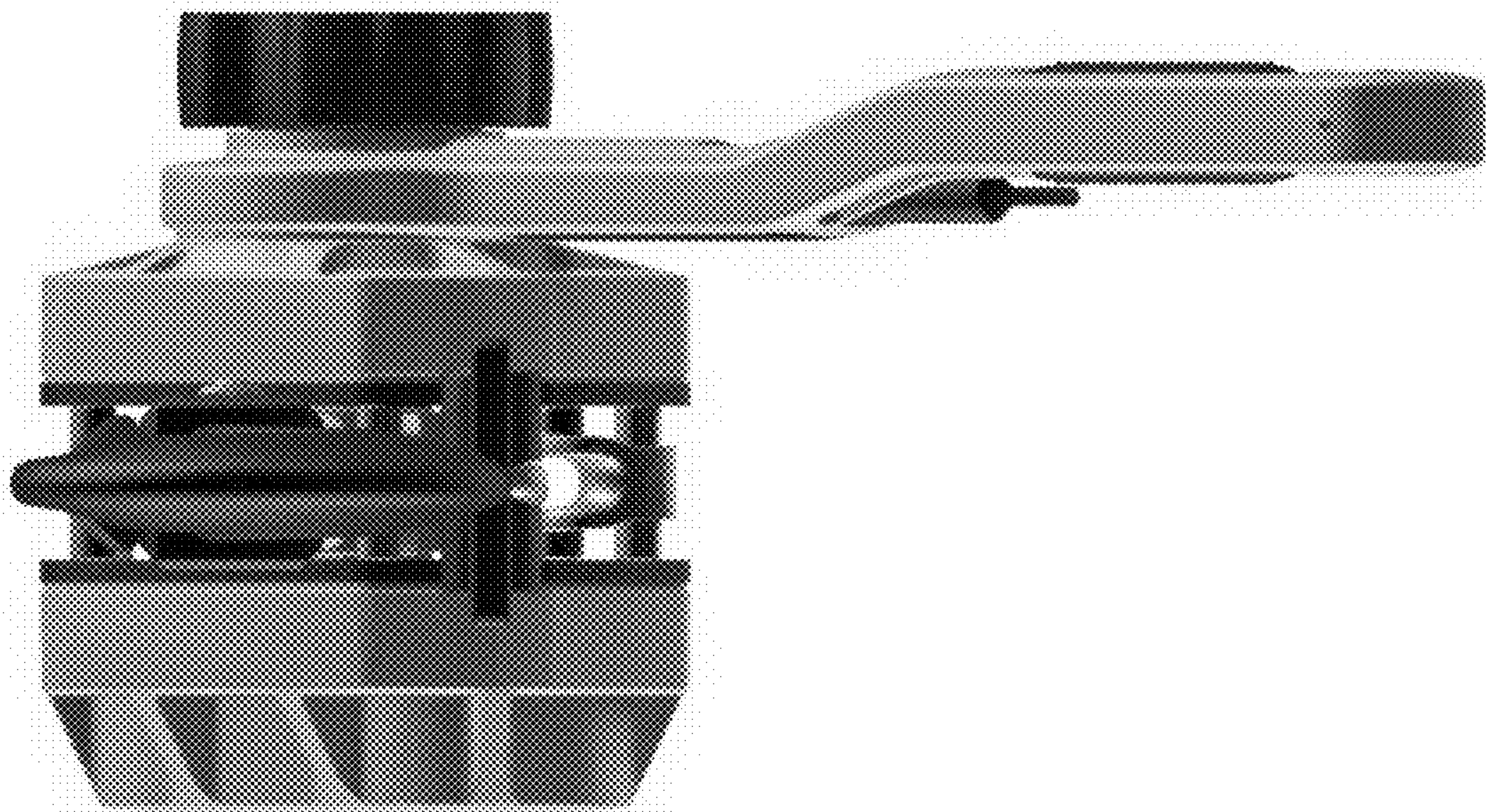
1.4



1.5



1.6



1.7



1.8



1.9



1.10



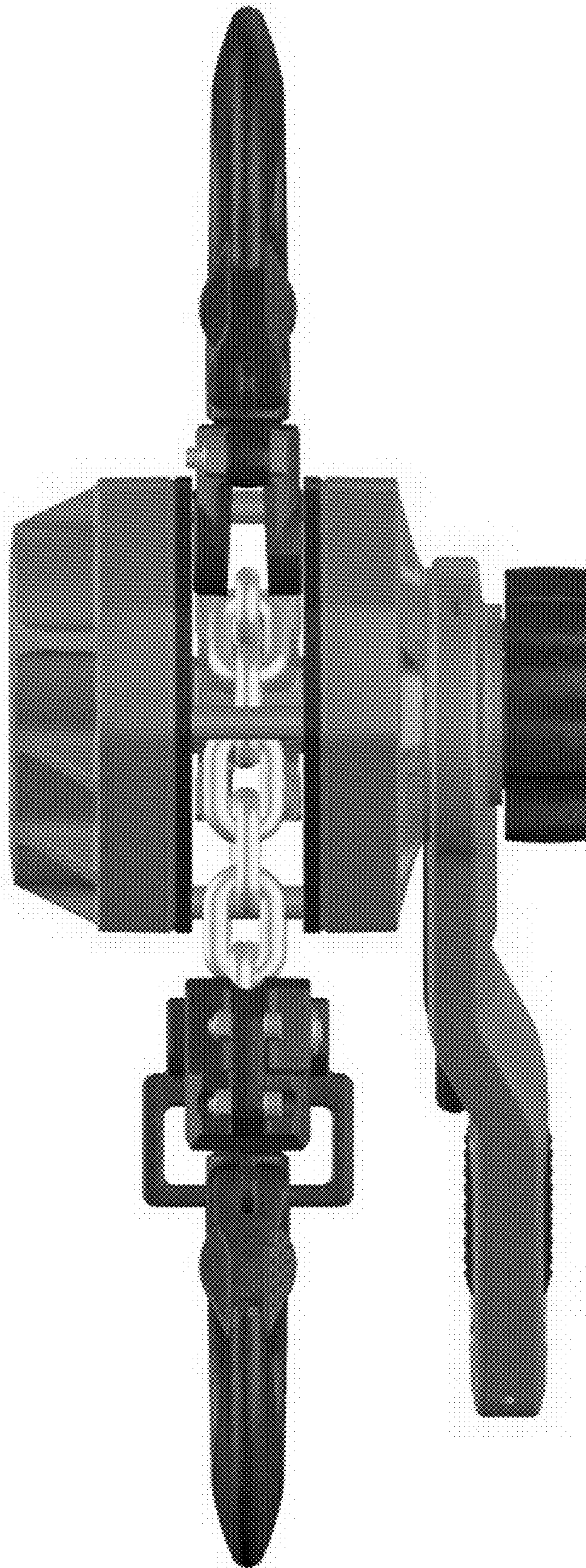
2.1



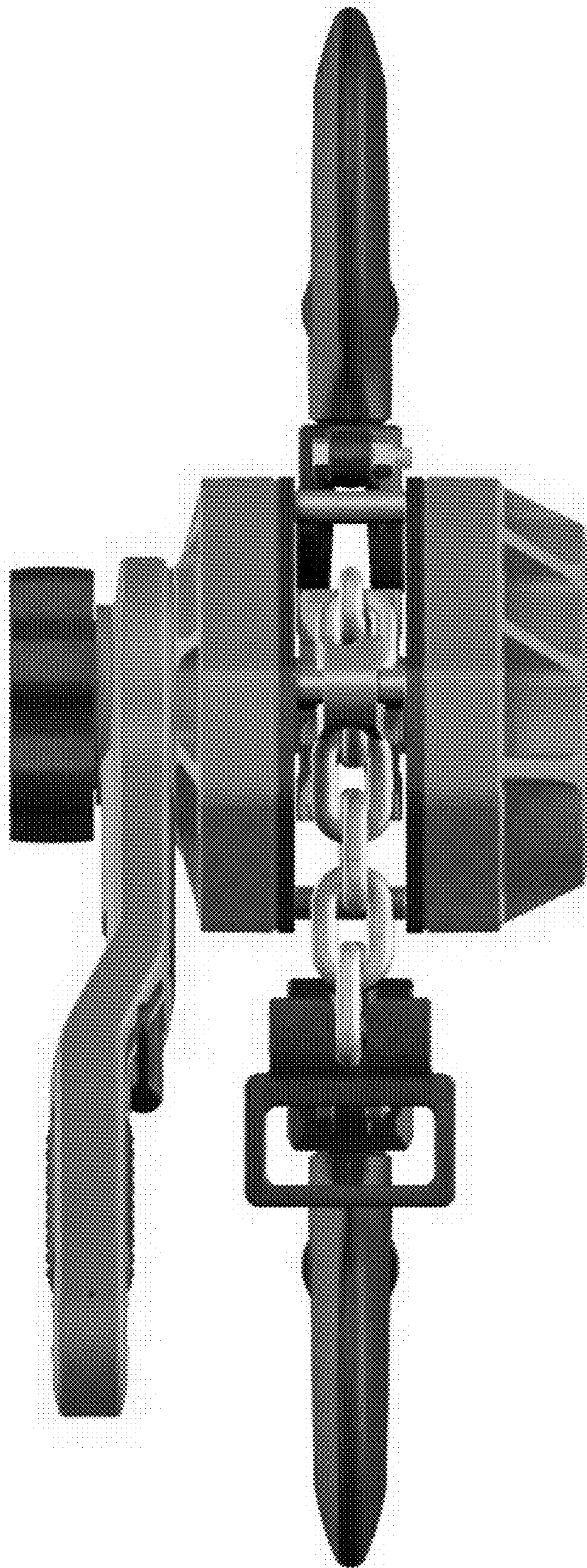
2.2



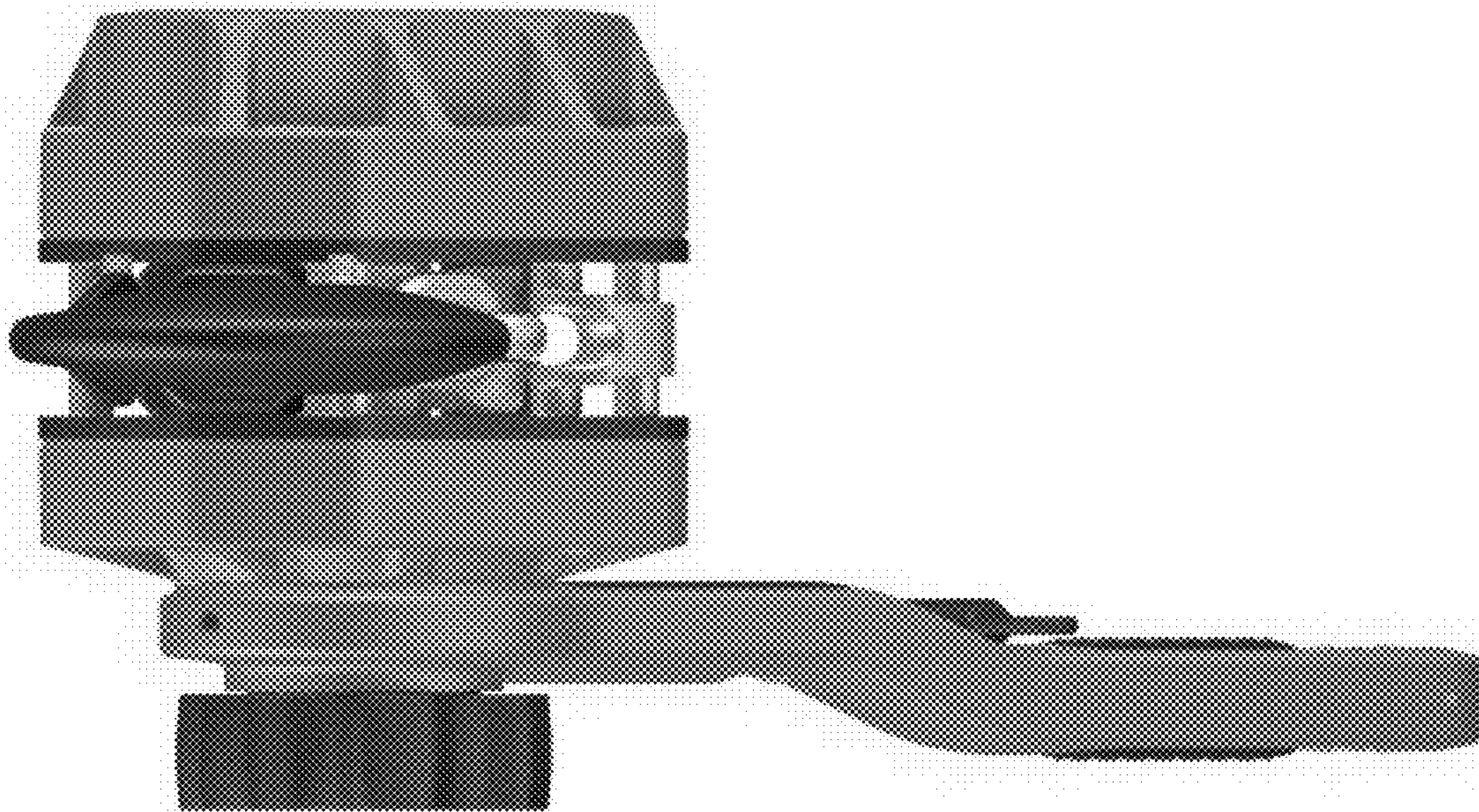
2.3



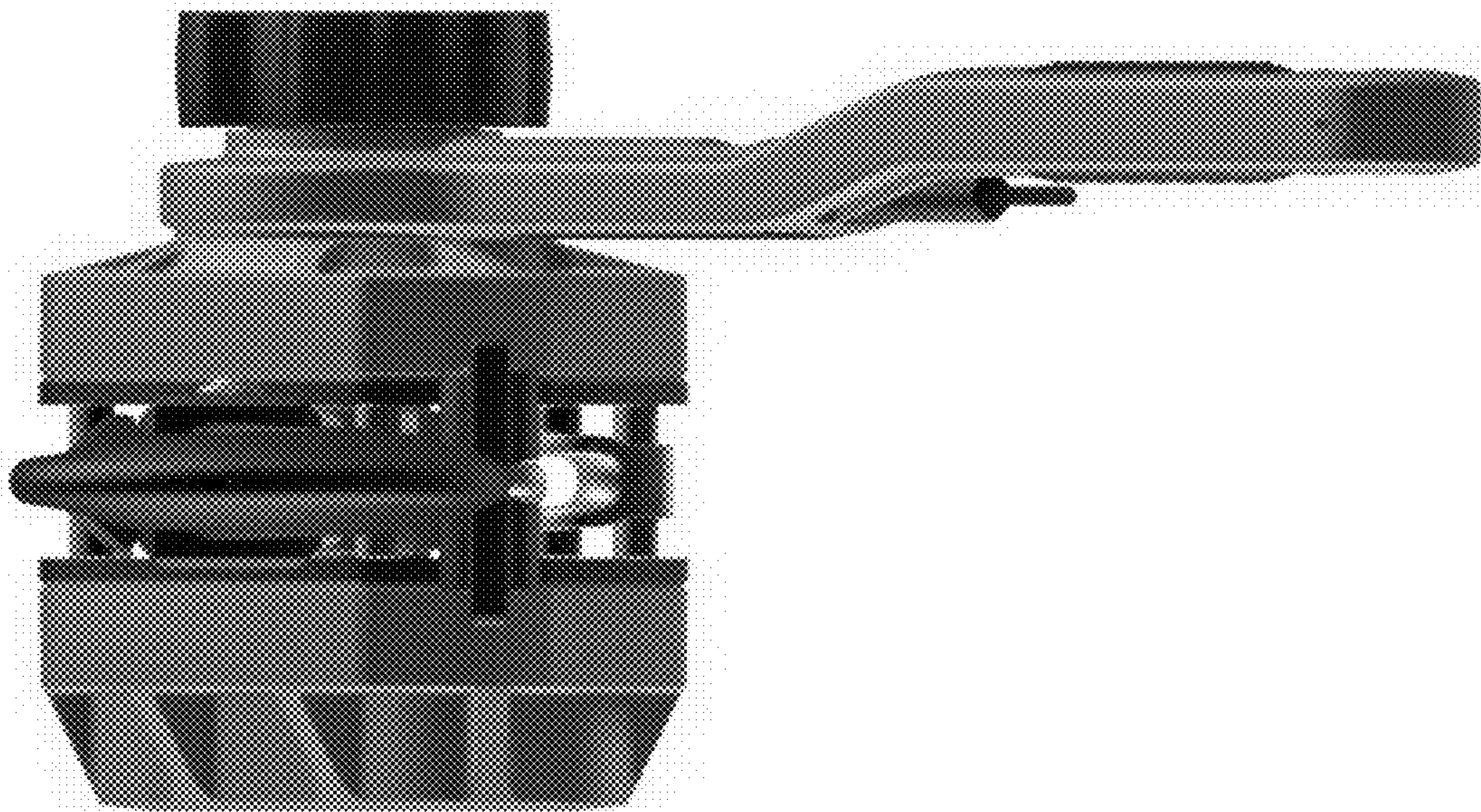
2.4



2.5



2.6



2.7



2.8



2.9



2.10



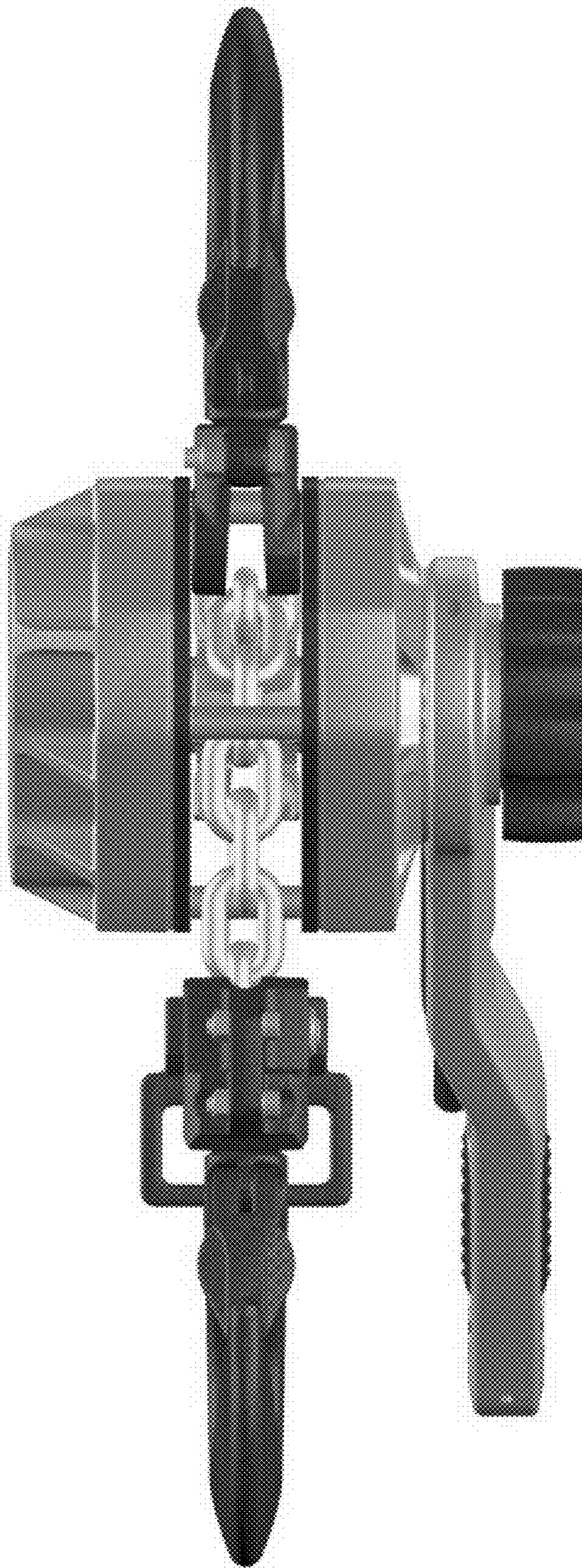
3.1



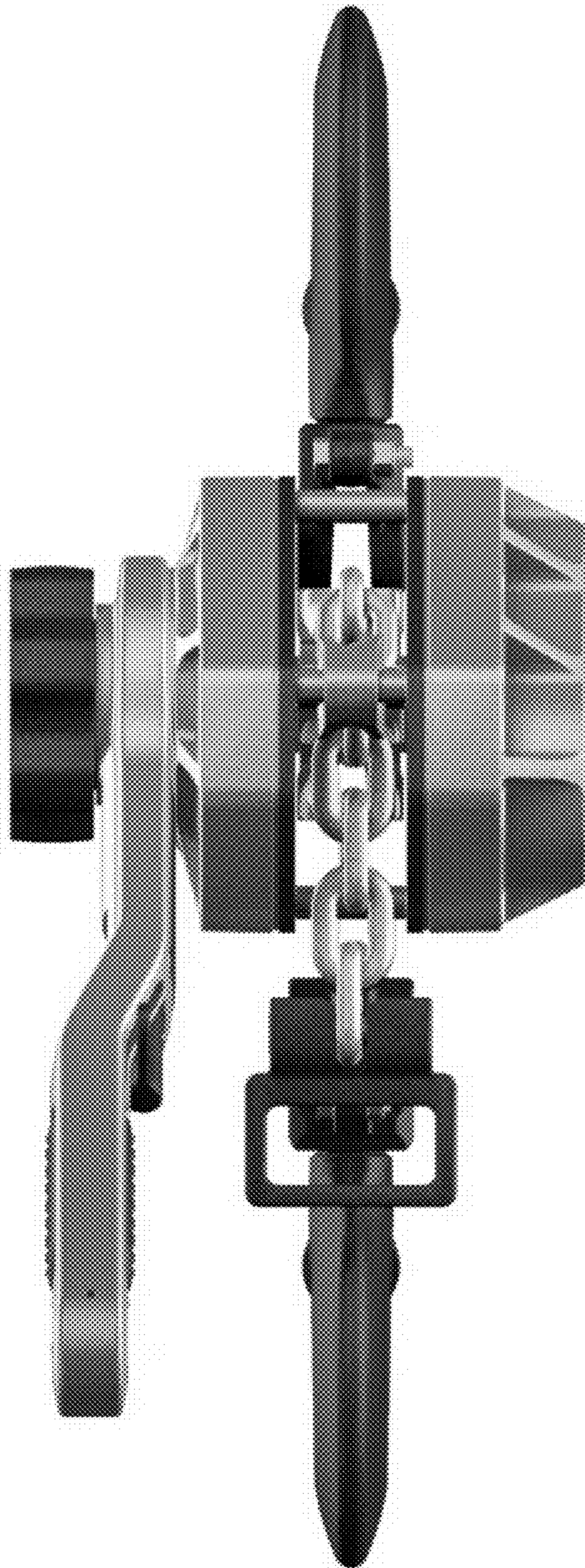
3.2



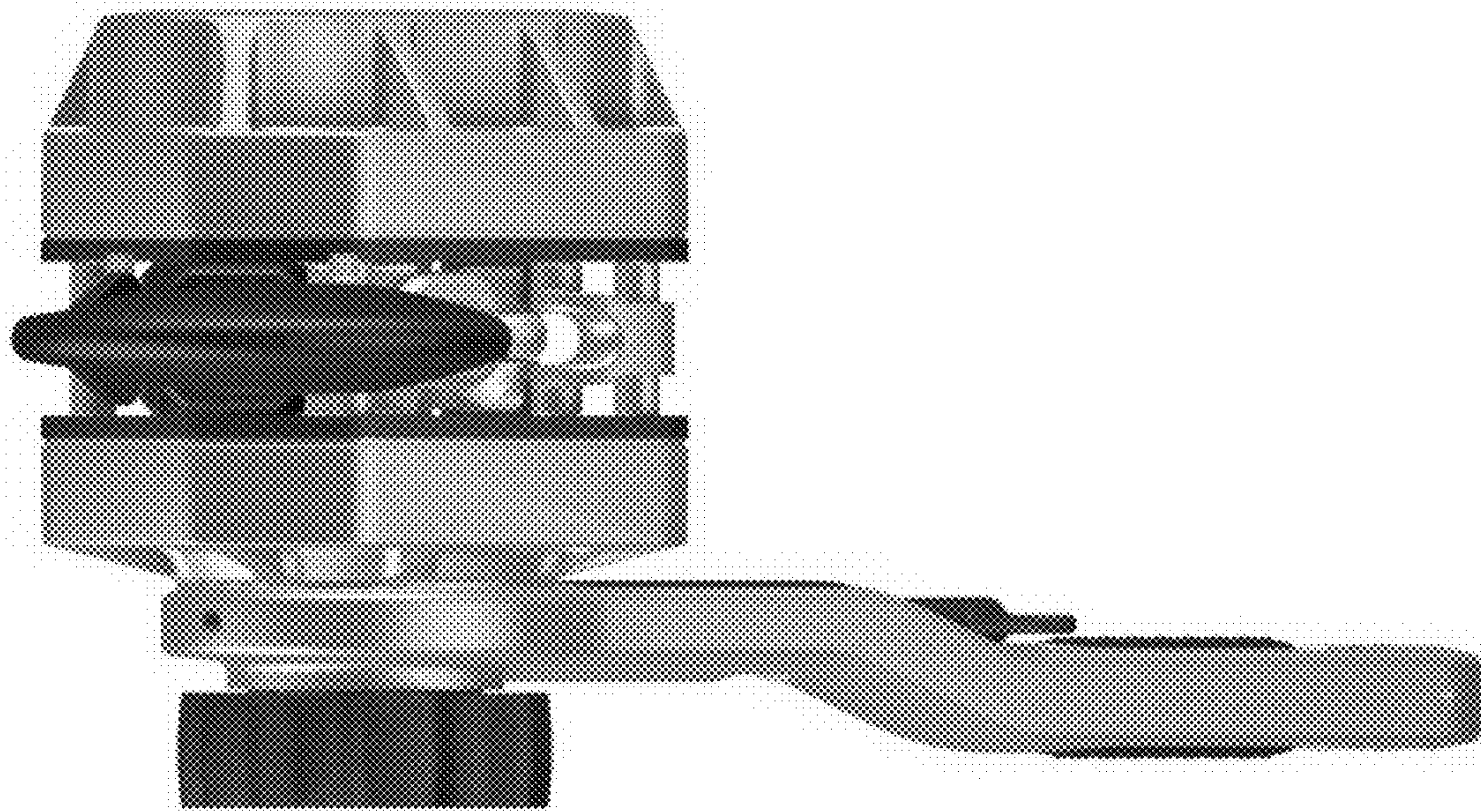
3.3



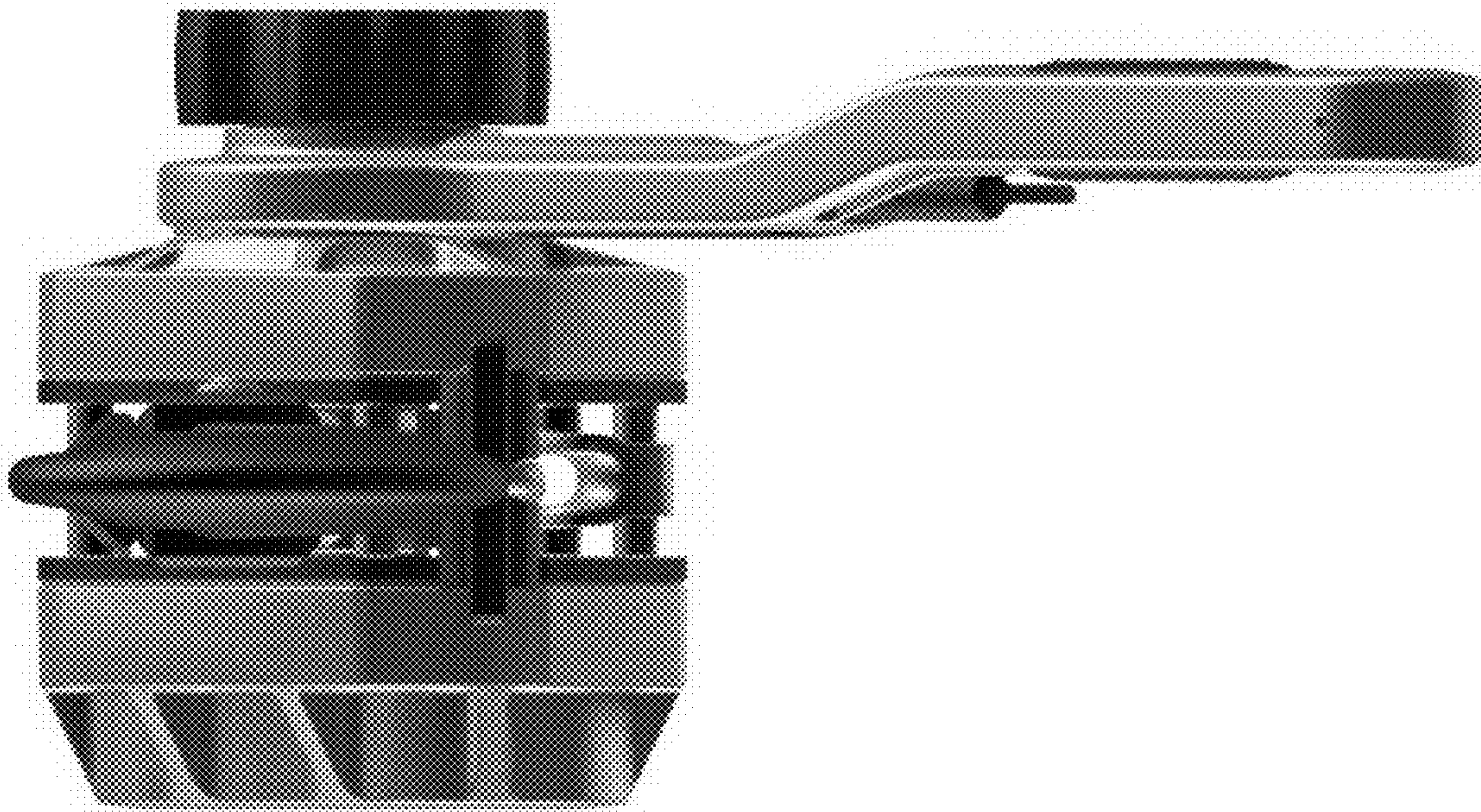
3.4



3.5



3.6



3.7



3.8



3.9



3.10

