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(12) **United States Design Patent** (10) **Patent No.:** **US D957,569 S**
Jia (45) **Date of Patent:** **** Jul. 12, 2022**

(54) **TUBE END EJECTOR**
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(72) Inventor: **Qunwei Jia, Hangzhou (CN)**
(73) Assignee: **HANGZHOU WEIRAN MACHINERY CO., LTD, Hangzhou (CN)**

D667,080 S * 9/2012 Sanwald D23/223
D685,058 S * 6/2013 Rigolio D23/226
8,460,251 B2 * 6/2013 Ebbett A61D 7/00
604/223
D745,636 S * 12/2015 Lin D23/226
D747,441 S * 1/2016 Näslund D23/223
9,296,000 B1 * 3/2016 Laible A01C 23/042
D756,485 S * 5/2016 Rasmussen D23/223
D782,005 S * 3/2017 Näslund D23/223
D805,567 S * 12/2017 Kita D8/30
(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/747,937**

Spray Adaptor Aerosol Spray Gun Handle with Full Grip Trigger, Mar. 29, 2017, amazon.ca, Mar. 24, 2022, URL: <https://www.amazon.ca/Adaptor-Aerosol-Handle-Trigger-Locking/dp/B071YLB7TM/> (Year: 2017).*

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(Continued)

(30) **Foreign Application Priority Data**

Jul. 17, 2020 (CN) 202030388995.X

Primary Examiner — Keith J Wilson

(51) **LOC (13) Cl.** **23-01**

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

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

USPC **D23/223**

(58) **Field of Classification Search**

USPC D23/213, 214, 215, 222, 223, 224, 226, D23/229, 230

CPC A61H 9/0021; A61H 33/00; B05B 1/00; B05B 1/14; B05B 1/185; B05B 1/08; B05B 1/02; B05B 1/26; B05B 12/002; B05B 1/18; B05B 9/01

See application file for complete search history.

(57) **CLAIM**

The ornamental design for a tube end ejector, as shown and described.

DESCRIPTION

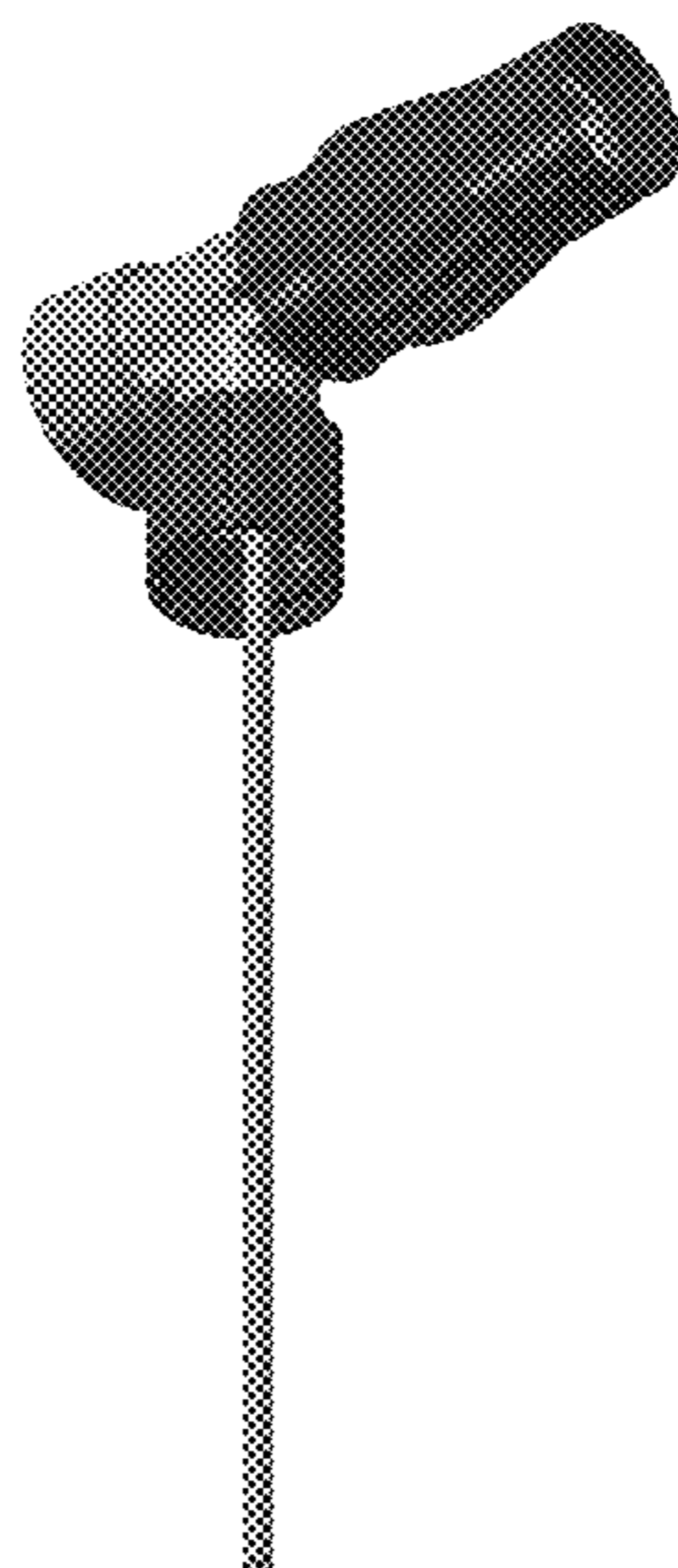
FIG. 1 is a perspective view of a tube end ejector showing my new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is another perspective view thereof.
The broken lines depict portions of the tube end ejector that form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D360,252 S * 7/1995 Dennison D23/213
D397,421 S * 8/1998 Adams D23/226
D463,527 S * 9/2002 Guo D23/226
D512,121 S * 11/2005 Chen D23/223
D578,603 S * 10/2008 Khaitov D23/213
D579,079 S * 10/2008 Ko D23/226
D581,486 S * 11/2008 Fulford D23/223
D639,390 S * 6/2011 Wu D23/226

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D826,025	S *	8/2018	Harrington	.....	D8/107
10,245,042	B2 *	4/2019	Koltz	.....	A61B 17/1628
D875,885	S *	2/2020	Johnston	.....	D23/226
D889,597	S *	7/2020	Dammkoehler	.....	D23/213
D895,769	S *	9/2020	Laible	.....	D23/223
D905,200	S *	12/2020	Willfort	.....	D23/226
D905,821	S *	12/2020	Ciura	.....	D23/223
D907,744	S *	1/2021	Roehl	.....	D23/226
D915,198	S *	4/2021	Chung	.....	D9/448
D921,840	S *	6/2021	Chen	.....	D23/226
2010/0213280	A1 *	8/2010	Laible	.....	B05B 7/1209 239/310
2012/0262181	A1 *	10/2012	Scott	.....	H02S 50/10 324/452
2013/0291955	A1 *	11/2013	Laible	.....	G05D 11/006 137/101.11

OTHER PUBLICATIONS

Kiloline Empty Spray Bottle Clear PET Plastic 200ml Bottles fine Mist Trigger Sprayer, Aug. 30, 2018, amazon.ca, Mar. 24, 2022, URL: <https://www.amazon.ca/Kiloline-Non-Toxic-Odorless-Leak-proof-Treatments/dp/B01LZAFC0A/> (Year: 2018).*

* cited by examiner

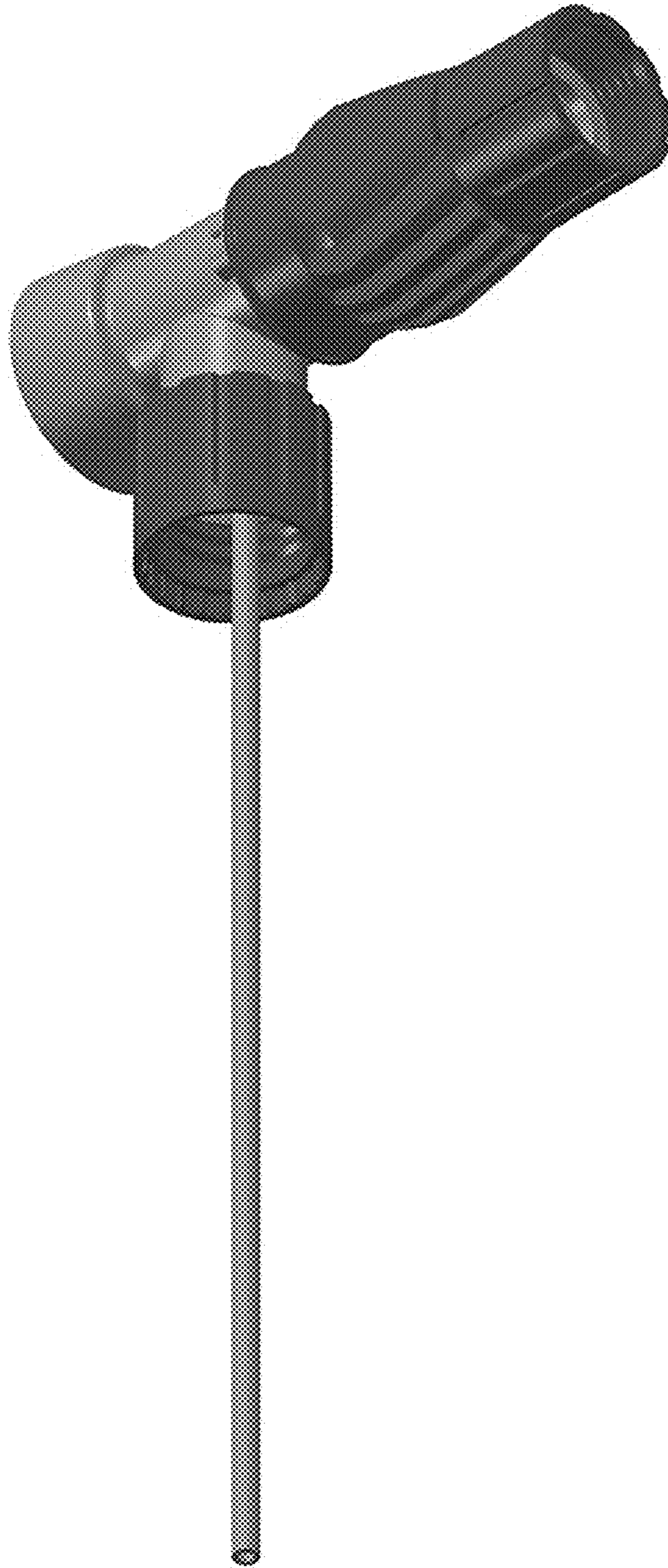


FIG. 1

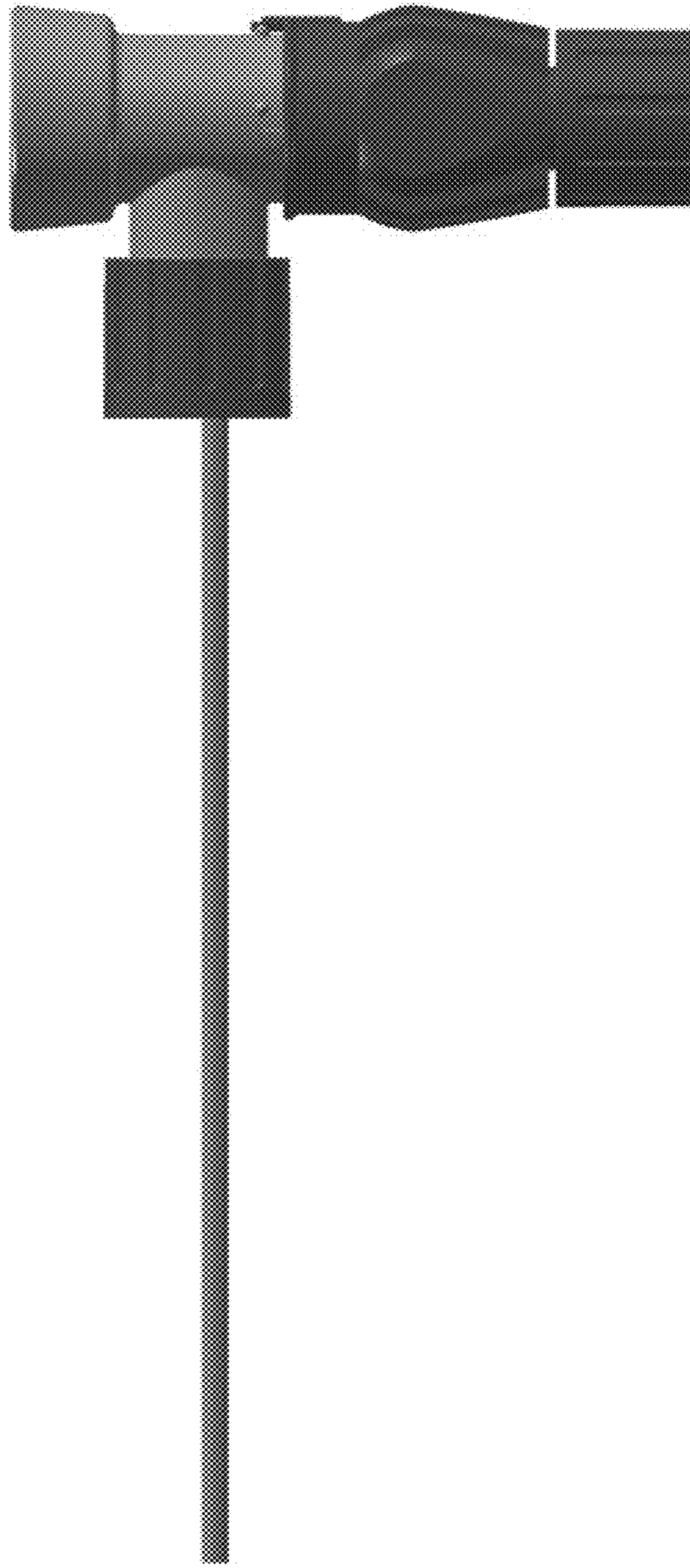


FIG. 2

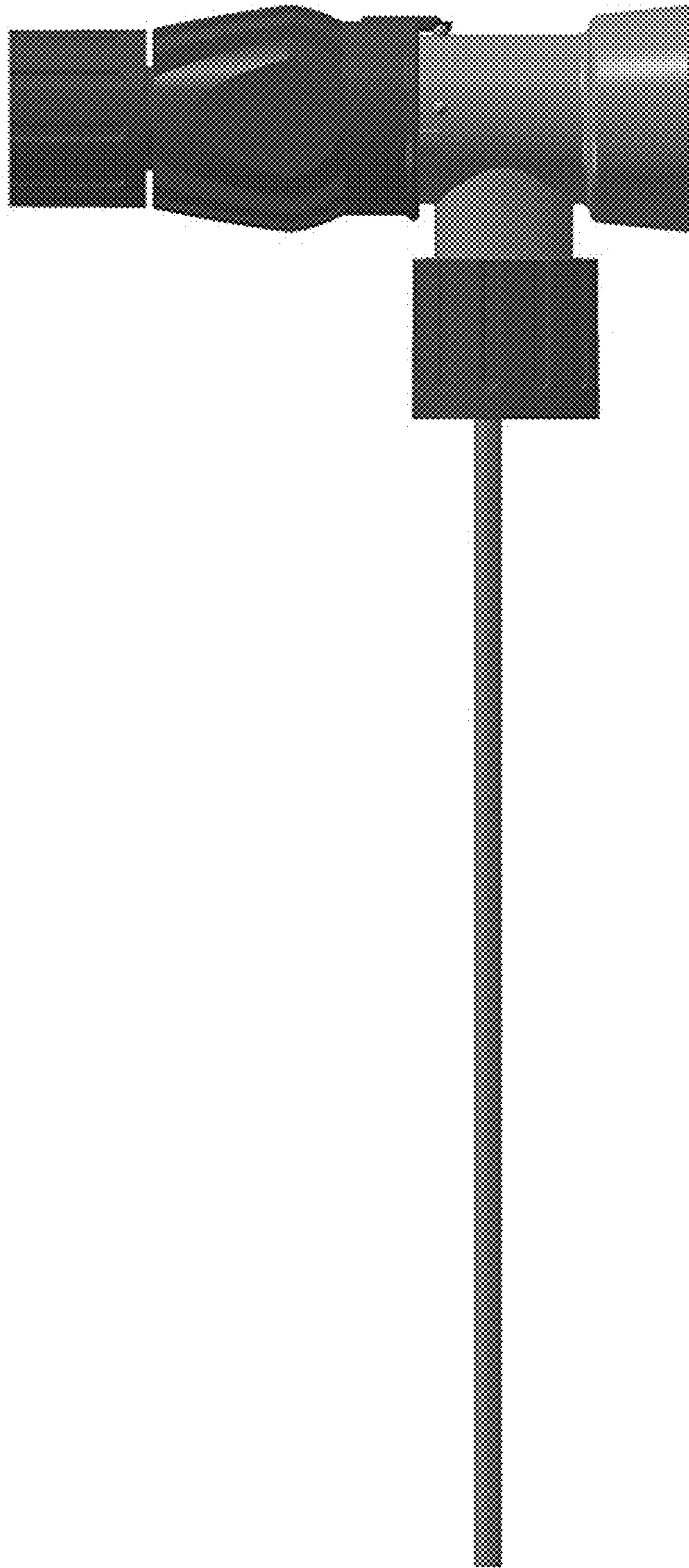


FIG. 3

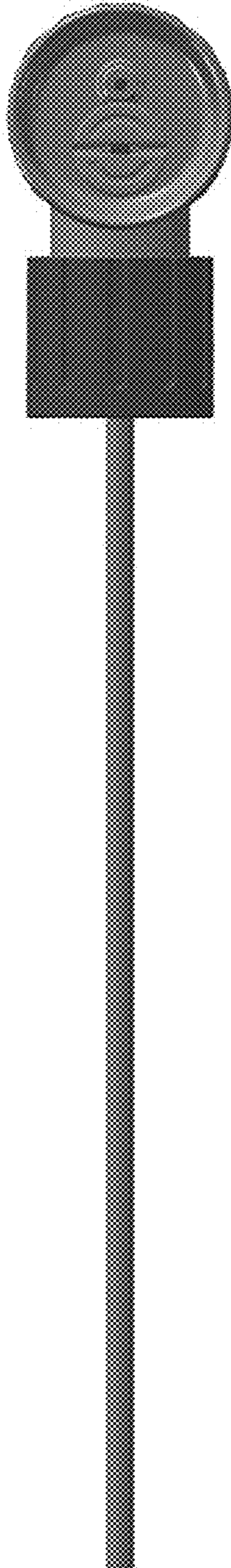


FIG. 4

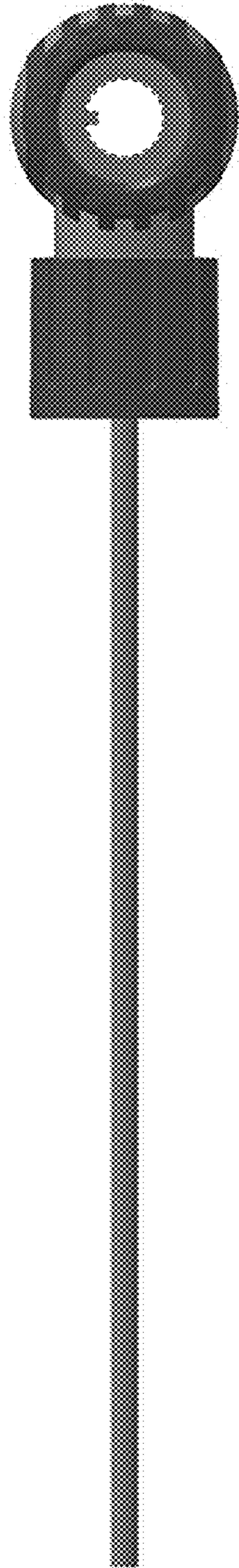


FIG. 5

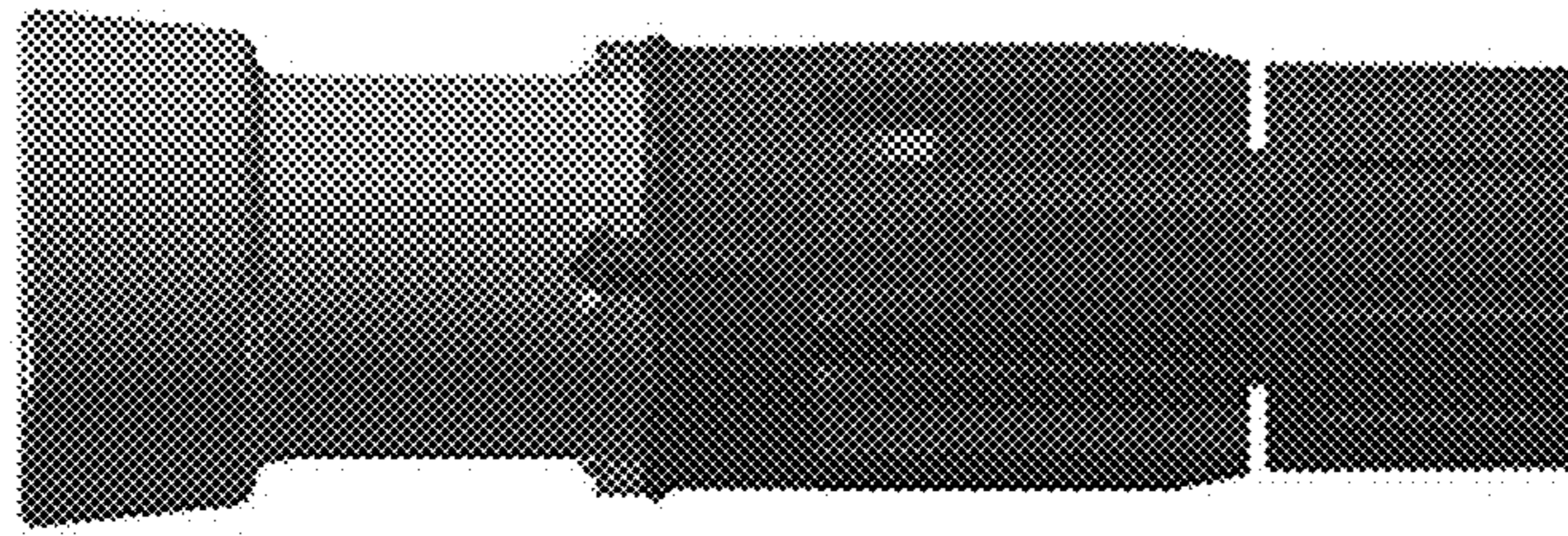


FIG. 6

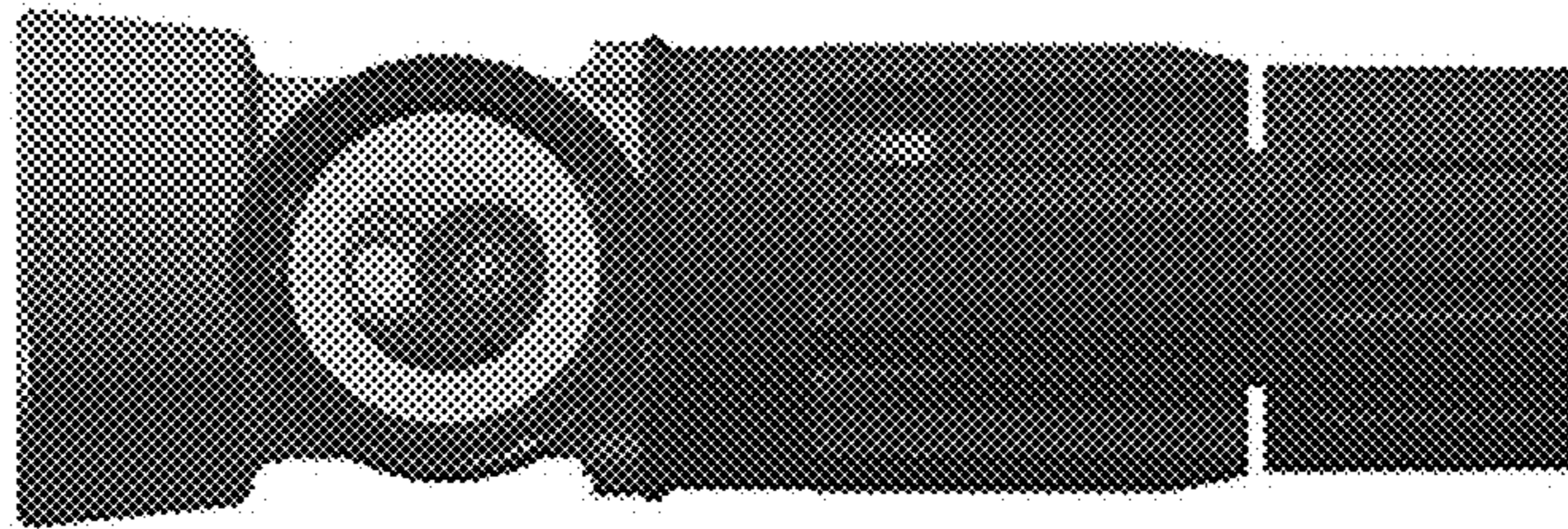


FIG. 7



FIG. 8