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

(10) **Patent No.:** **US D748,963 S**
(45) **Date of Patent:** **** Feb. 9, 2016**

- (54) **GRINDING MACHINE**
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- (**) Term: **14 Years**
- (21) Appl. No.: **29/477,464**
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- (30) **Foreign Application Priority Data**

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- (51) **LOC (10) Cl.** **08-01**
- (52) **U.S. Cl.**
USPC **D8/62**
- (58) **Field of Classification Search**
USPC D8/69, 68, 67, 66, 64, 61, 70;
83/698.41, 747, 166.3, 374, 373, 375,
83/376, 391, 377, 390, 388, 389;
125/13.01; 144/218; D21/532
CPC B24B 7/18; B24B 7/184; B24B 23/02;
B24B 55/102; B24D 13/16
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 2,702,395 A 2/1955 Zaiger
 - 4,158,935 A * 6/1979 Robert 451/359
- (Continued)

FOREIGN PATENT DOCUMENTS

- DE 19830579 1/1999
 - EP 1702715 9/2006
- (Continued)

OTHER PUBLICATIONS

Flex-Elektrowerkzeuge GmbH, product information sheet for FLEX,
Wall and ceiling sanders, WSE 500, Long-neck sander, Classic-
Giraffe®, 1 page (downloaded on Feb. 28, 2014).
(Continued)

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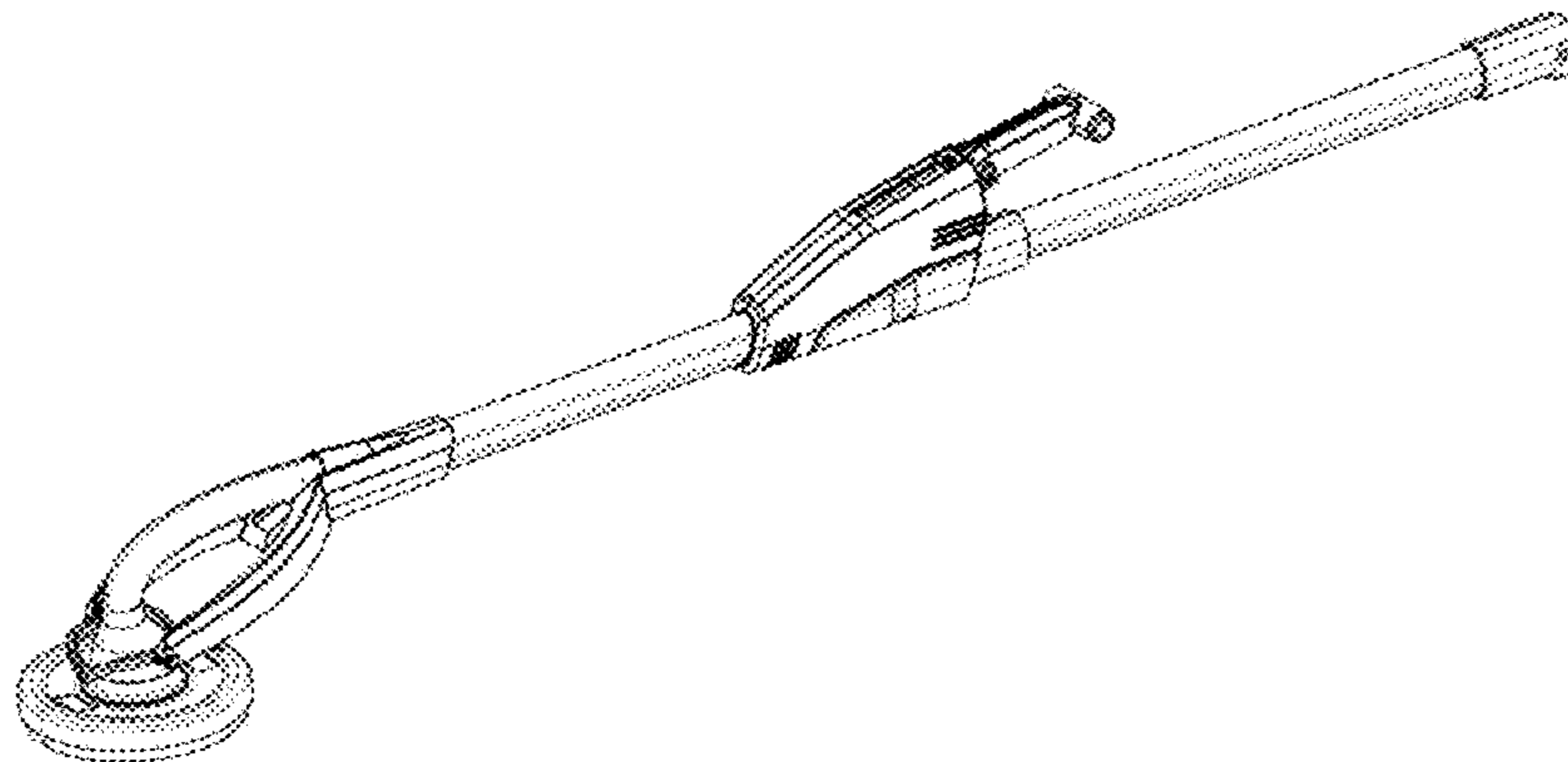
(57) **CLAIM**

The ornamental design for a “grinding machine,” as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a grinding machine including an extension device showing the new design.
 FIG. 2 is a first end view of the grinding machine and the extension device of FIG. 1.
 FIG. 3 is a left side view of the grinding machine and the extension device of FIG. 1.
 FIG. 4 is a second end view of the grinding machine and the extension device of FIG. 1.
 FIG. 5 is a right side view of the grinding machine and the extension device of FIG. 1.
 FIG. 6 is a top view of the grinding machine and the extension device of FIG. 1.
 FIG. 7 is a bottom view of the grinding machine and the extension device of FIG. 1.
 FIG. 8 is a perspective view of a grinding machine including an extension device showing the new design.
 FIG. 9 is a first end view of the grinding machine and the extension device of FIG. 8.
 FIG. 10 is a left side view of the grinding machine and the extension device of FIG. 8.
 FIG. 11 is a second end view of the grinding machine and the extension device of FIG. 8.
 FIG. 12 is a right side view of the grinding machine and the extension device of FIG. 8.
 FIG. 13 is a top view of the grinding machine and the extension device of FIG. 8; and,
 FIG. 14 is a bottom view of the grinding machine and the extension device of FIG. 8.
 Certain of the drawings are lined for color. Throughout FIGS. 1-7, the horizontal dashed hatching represents a first color, the vertical hatching represents a second color and the cross-hatching represents a third color, as follows:
 The first color is in particular light grey, silver or white.
 The second color is in particular red.
 The third color is in particular dark grey or black.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,782,632	A *	11/1988	Matechuk	.....	451/354
5,239,783	A *	8/1993	Matechuk	.....	451/354
5,951,389	A *	9/1999	Hettes et al.	.....	451/508
6,659,852	B1 *	12/2003	Wettstein et al.	.....	451/557
7,203,986	B2	4/2007	Pears et al.		
D564,322	S *	3/2008	Wright et al.	.....	D8/62
7,387,564	B2 *	6/2008	Jespersen	.....	451/354
D573,431	S *	7/2008	Wright et al.	.....	D8/62
7,458,884	B2 *	12/2008	Falk	.....	451/359
7,549,913	B2 *	6/2009	Weiford et al.	.....	451/359
7,625,264	B1 *	12/2009	Gordon	.....	451/294
7,828,631	B1 *	11/2010	Herbert	.....	451/344
7,887,395	B2	2/2011	Weiford et al.		
8,591,292	B2 *	11/2013	Roscher	.....	451/354
2006/0073778	A1 *	4/2006	Phillips et al.	.....	451/354
2008/0085664	A1 *	4/2008	Weiford et al.	.....	451/259
2009/0215365	A1	8/2009	Weiford et al.		

FOREIGN PATENT DOCUMENTS

WO	2008/033377	3/2008
WO	2008/037021	4/2008

OTHER PUBLICATIONS

Flex-Elektrowerkzeuge GmbH, product information sheet for FLEX, Wall and ceiling sanders, WST 700 VV, Vario-Giraffe® wall and ceiling sander, 1 page (downloaded on Feb. 28, 2014).
 Flex-Elektrowerkzeuge GmbH, description of FLEX WST 700 VV Vario-Giraffe handle together with an English language translation, 1 page, source unknown (downloaded on Mar. 3, 2014).
 Menzer, description for LHS 225, Long-Neck Sander, 1 page (downloaded on Feb. 20, 2014).
 Menzer, specification for LHS 225, Long-Neck Sander, 1 page (downloaded on Feb. 20, 2014).
 Menzer, description for LHS 225 Vario, Long-Neck Sander, 1 page (downloaded on Feb. 20, 2014).
 Menzer, specification for LHS 225 Vario, Long-Neck Sander, 1 page (downloaded on Feb. 20, 2014).
 Menzer, description for LHS 225 Pro, Long-Neck Sander, 1 page (downloaded on Feb. 20, 2014).
 Menzer, specification for LHS 225 Pro, Long-Neck Sander, 1 page (downloaded on Feb. 20, 2014).

Lux Tools, photo and product description for Drywall Sander TBS-600, 3 pages, an English language translation is attached (downloaded on Feb. 20, 2014).
 Storch AG, product information sheet for Wall and ceiling sanders “Spider”, long, 2 pages, an English language translation is attached (downloaded on Feb. 20, 2014).
 Sparky Power Tools GmbH, product information sheet for SMA 717CE, Long reach sander, 1 page (downloaded on Feb. 20, 2014).
 Rokamat, photo and product information sheet for Rokamat Titano, No. 60000, 2 pages (downloaded on Feb. 20, 2014).
 Rokamat, photo and product information sheet for Rokamat Gecko, No. 80000, 2 pages (downloaded on Feb. 20, 2014).
 Festool Group GmbH & Co. KG, photo and product information sheet for Long-reach sander Planex LHS 225, LHS 225 EQ-Plus, 2 pages (downloaded on Feb. 28, 2014).
 Spit, product information sheet for Long Neck Grinder Spit DWS 225, 2 pages, an English language translation is attached (downloaded on Feb. 28, 2014).
 Festool TV Australia, Screenshot of Festool Planex Official Video—Drywall Sanding, 1 page, Apr. 19, 2012, retrieved from the Internet, <URL:https://www.youtube.com/watch?v=2XlISr2dISw&list=PLXVo7a-KILQMnUD8PqOSV9jgywe4Otitx>, retrieved on Aug. 5, 2015.
 OBI, Lux-Tools Trockenbauschleifer TBS600, 1 page, Jul. 26, 2012, retrieved from the Internet, <URL: http://www.obide.com/product/LUX_Trockenbauschleifer_TBS_600/5258058>, retrieved on Aug. 5, 2015.
 MENZERTools, Screenshot of Menzer LHS 225 Pro—Langhalsschleifer video, 1 page, Feb. 7, 2013, retrieved from the Internet, <URL: https://www.youtube.com/watch?v=YBycV49w2BA>, retrieved on Aug. 5, 2015.
 Rokamat, Screenshot of Rokamat “Gecko” Elite-Trockenbauschleifer [Original Video—deutsch] video, 1 page, Mar. 12, 2012, retrieved from the Internet, <URL: https://www.youtube.com/watch?v=Mh7qwNmbj8>, retrieved on Aug. 5, 2015.
 Rokamat, Screenshot of Rokamat “Titano” Telescope Grinder/Teleskopschleifer[Original Video]video, 1 page, Apr. 19, 2010, retrieved from the Internet, <URL: https://www.youtube.com/watch?v=Y8O4oHe-4Nk>, retrieved on Aug. 5, 2015.
 Vladislav Sakhanov, Screenshot of Sparky SMA 717 CE video, 1 page, Oct. 31, 2013, retrieved from the internet, <URL: https://www.youtube.com/watch?v=S9J1kx7D88>, retrieved on Aug. 5, 2015.
 Funthomas999, Screenshot of Storch Spider S video, 1 page, May 11, 2013, retrieved from the internet, <URL:https://youtube.com/watch?v=QXAY4-baX3U>, retrieved on Aug. 5, 2015.

* cited by examiner

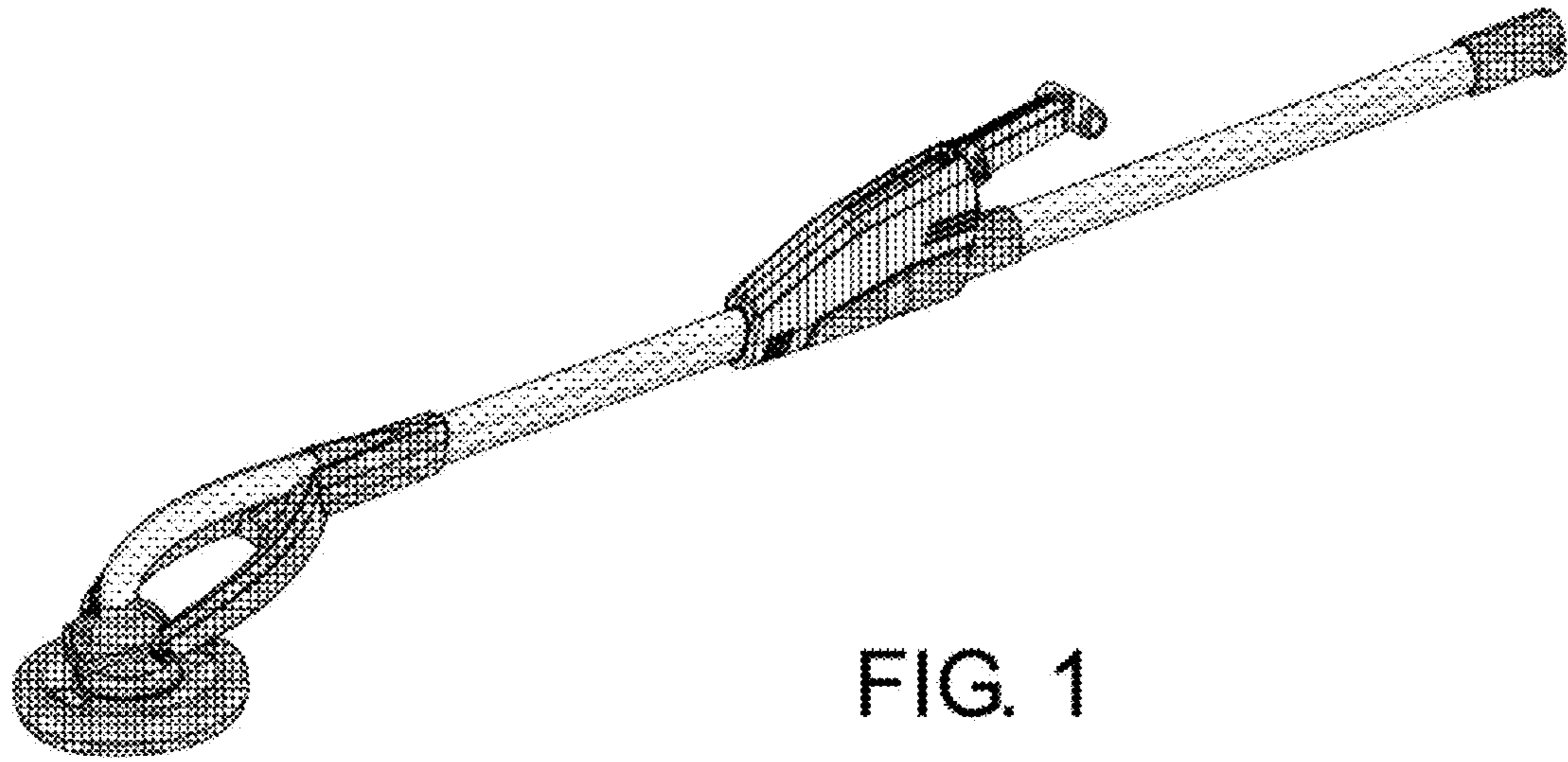


FIG. 1

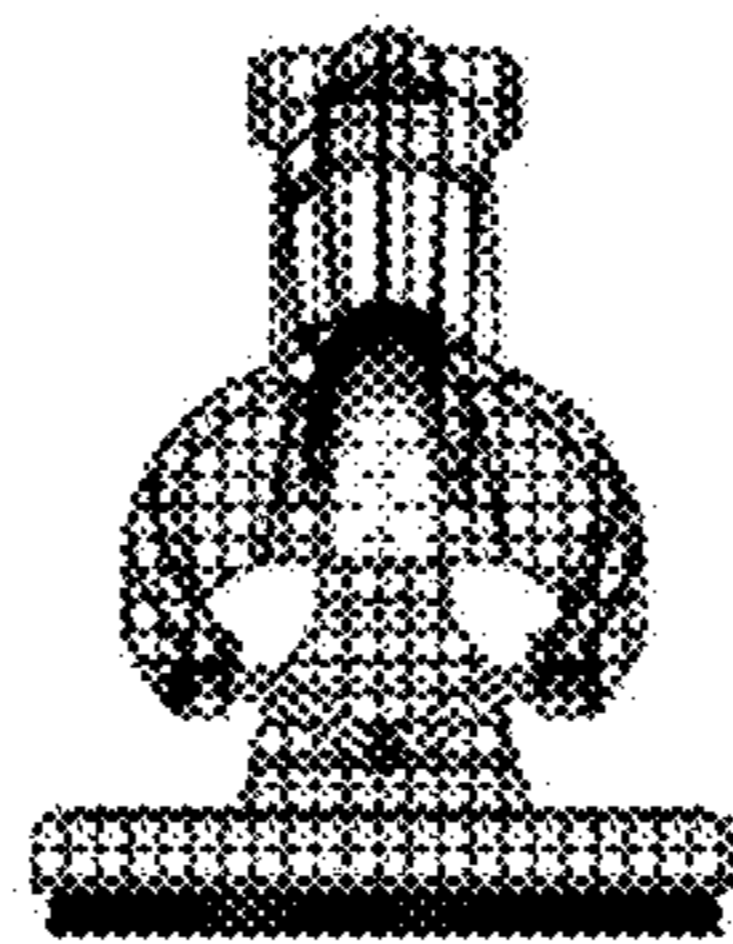


FIG. 2

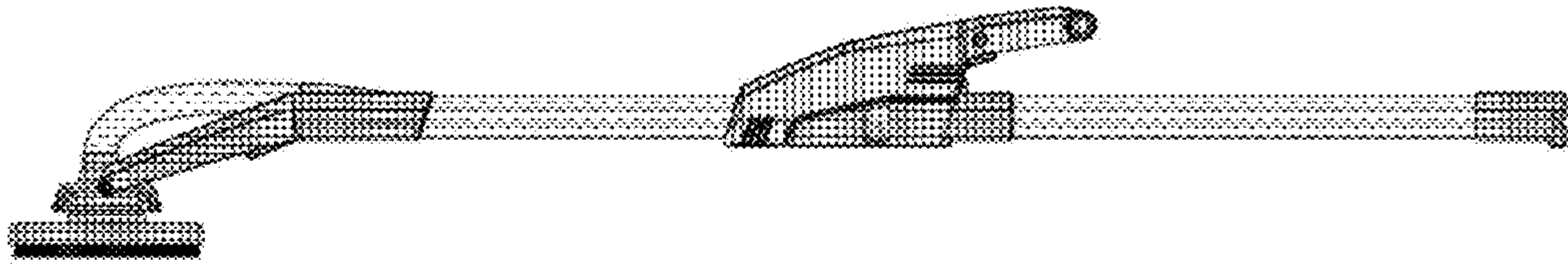


FIG. 3

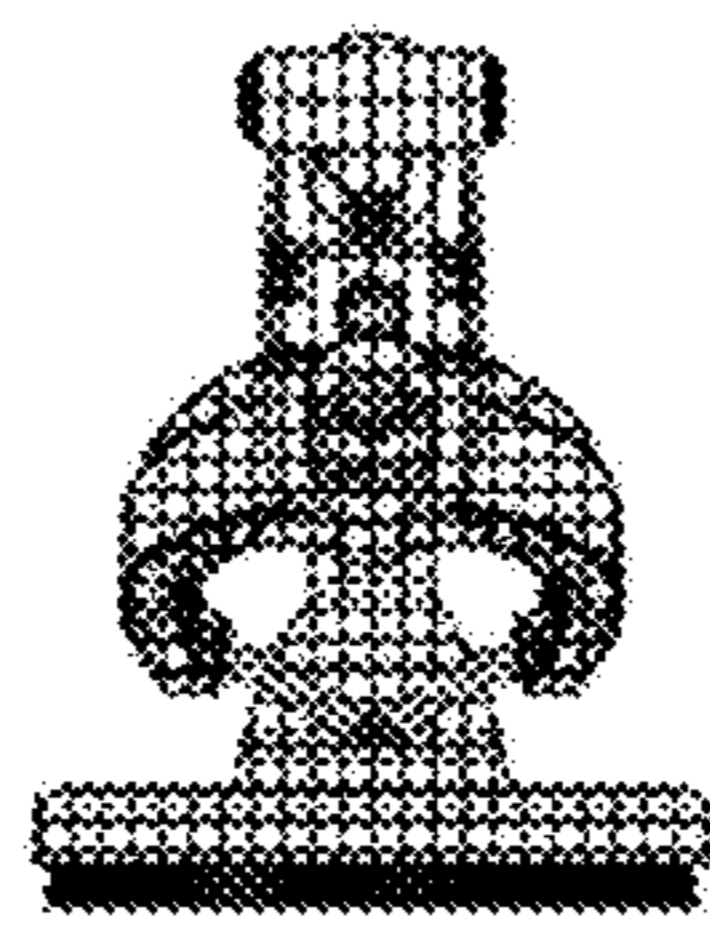


FIG. 4

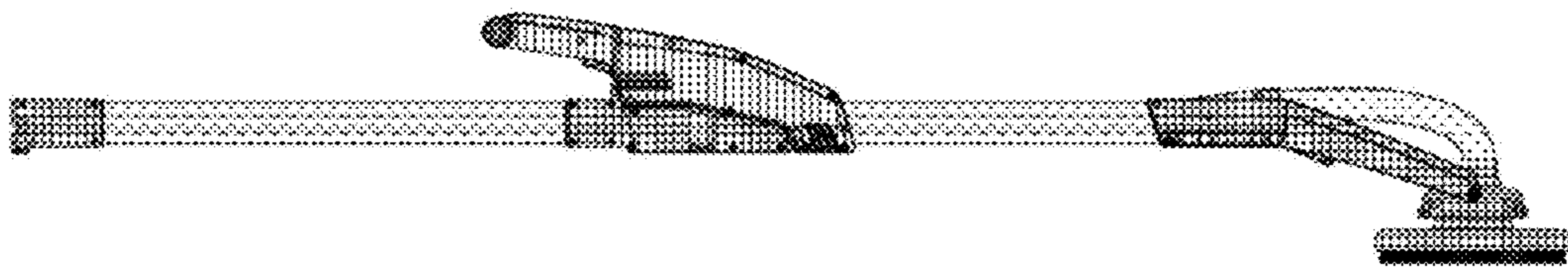


FIG. 5

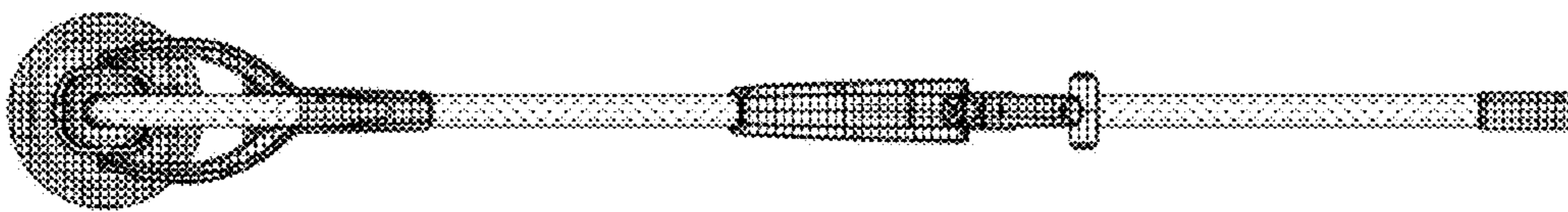


FIG. 6

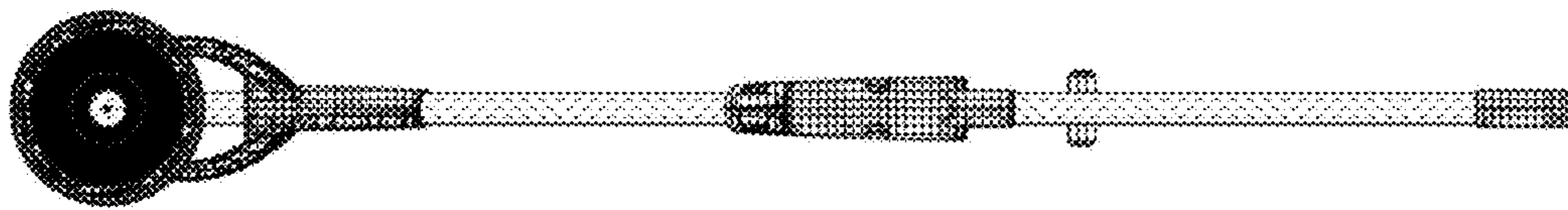


FIG. 7

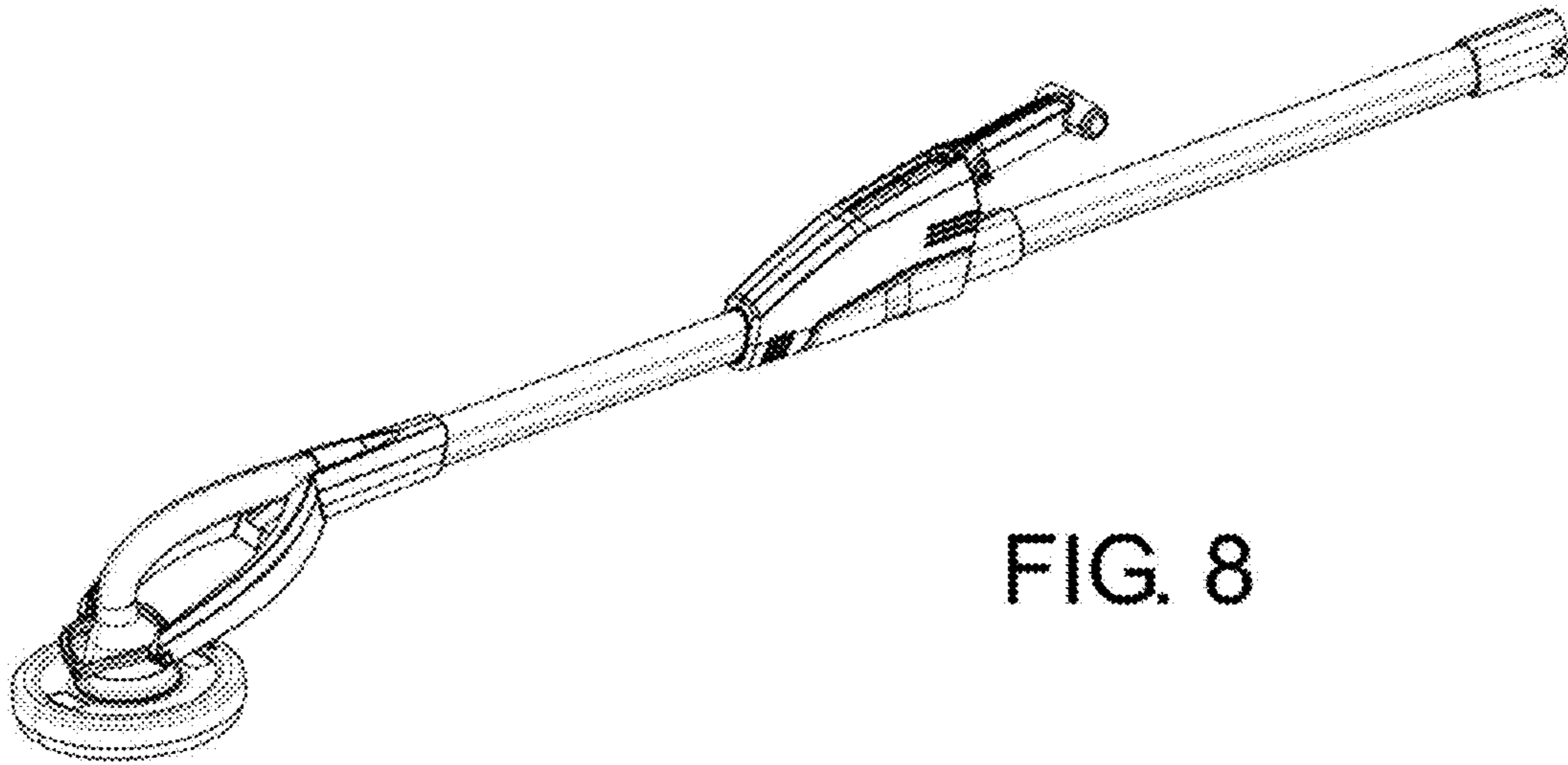


FIG. 8

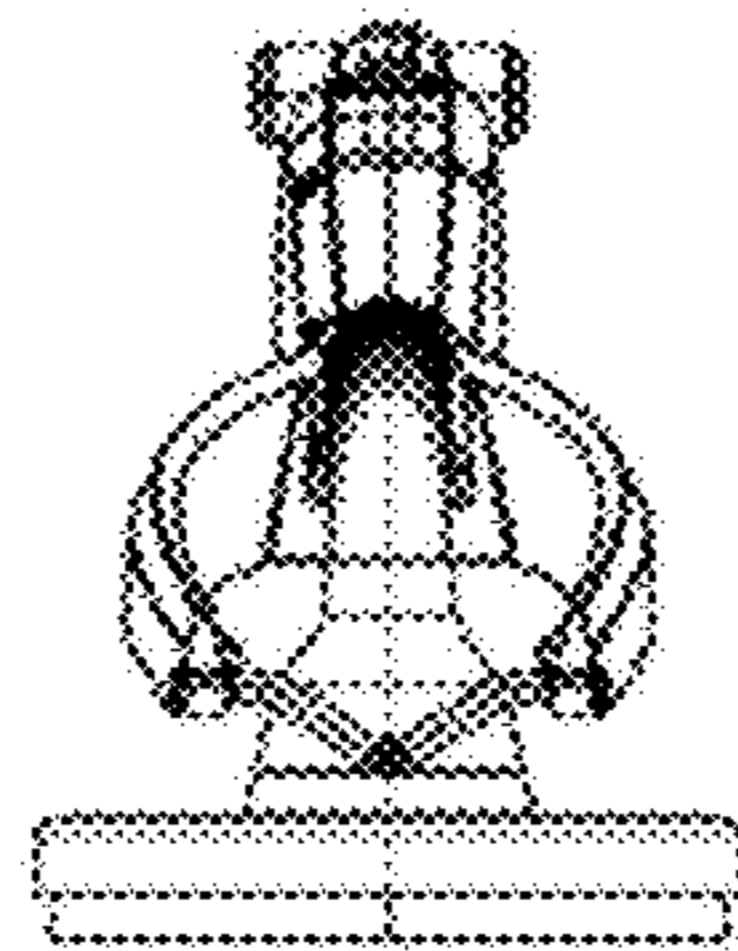


FIG. 9

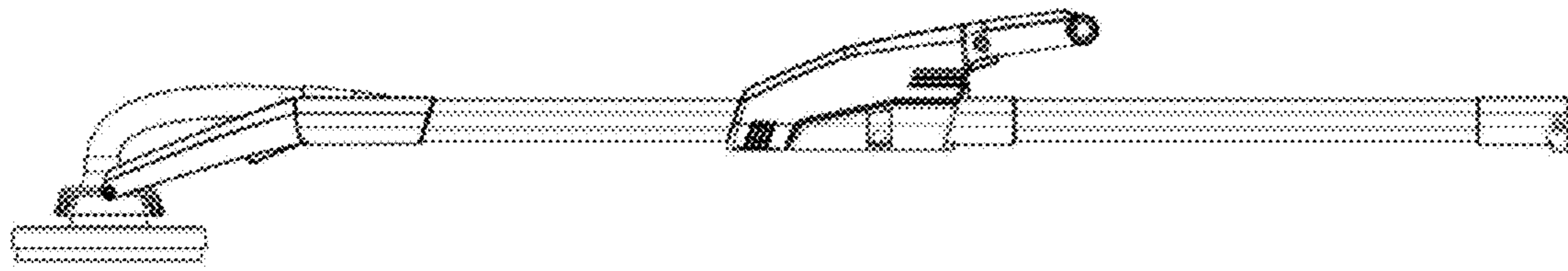


FIG. 10

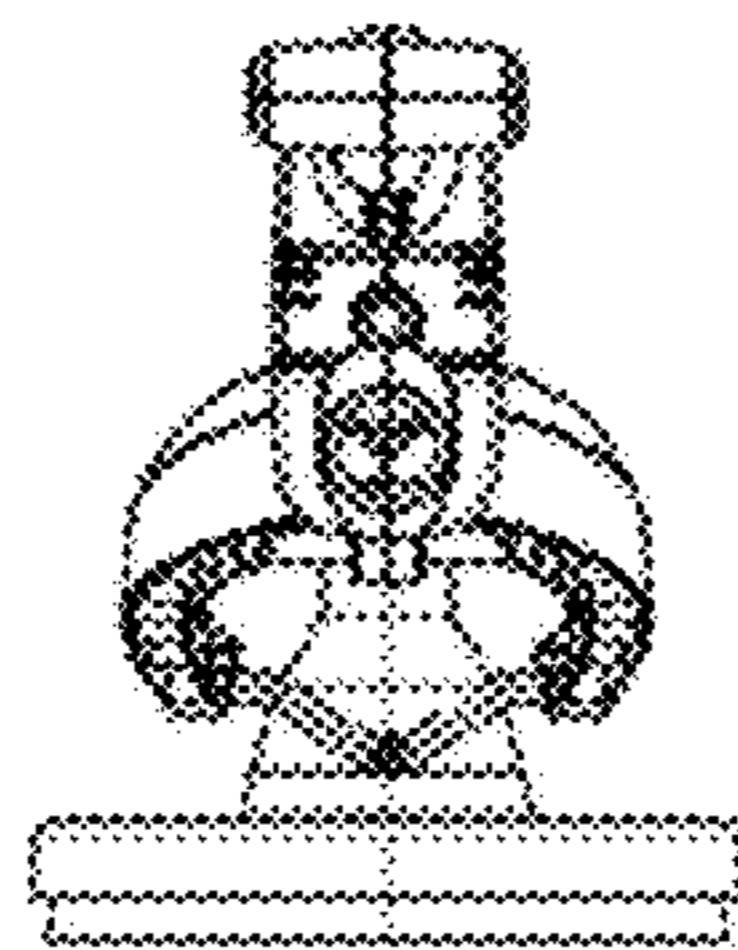


FIG. 11

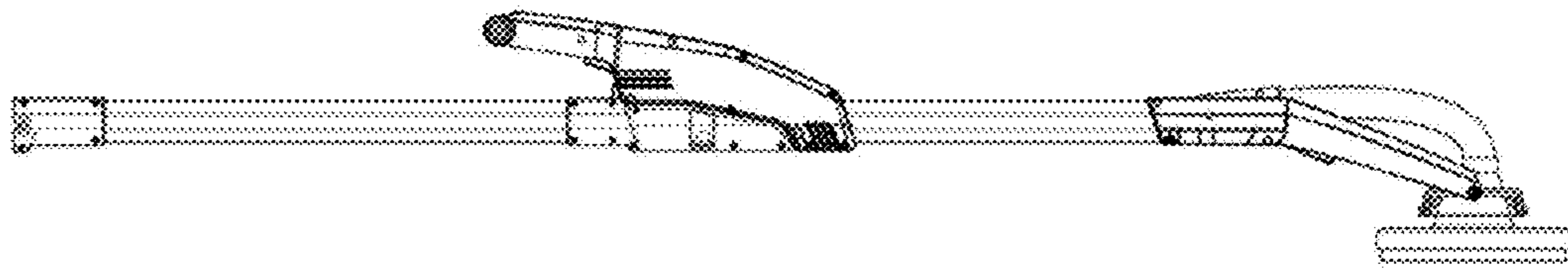


FIG. 12

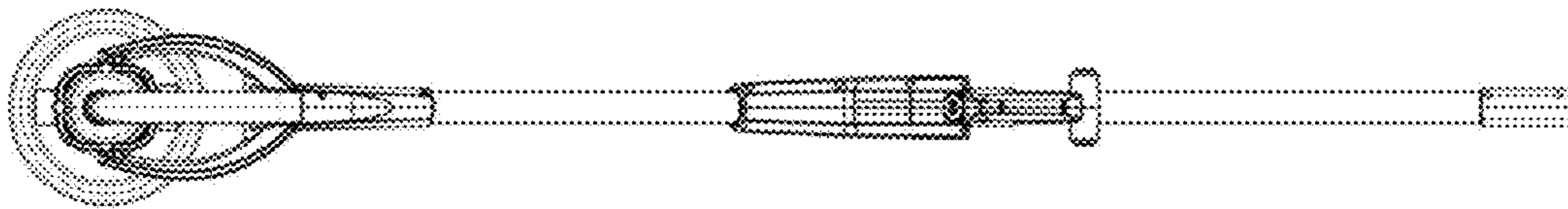


FIG. 13

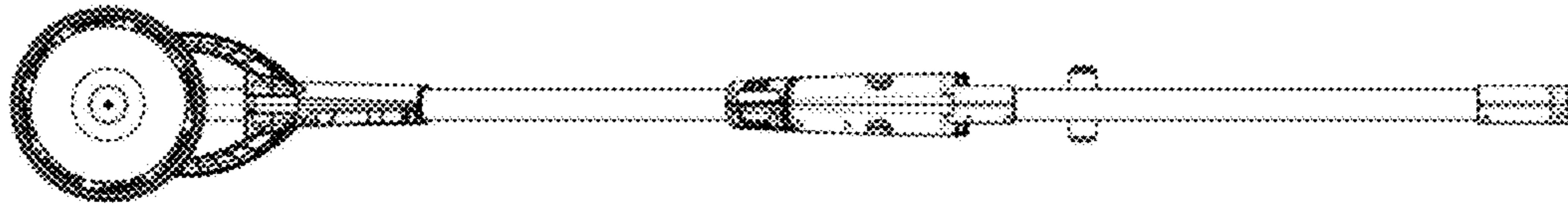


FIG. 14