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(12) **United States Design Patent**
Katsura

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(54) **OPERATION HANDLE FOR MEDICAL MANIPULATOR SYSTEM**

(71) Applicant: **TERUMO KABUSHIKI KAISHA,**
Tokyo (JP)

(72) Inventor: **Hideki Katsura,** Tokyo (JP)

(73) Assignee: **KARL STORZ GmbH & Co. KG,**
Tuttlingen (DE)

(**) Term: **14 Years**

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(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/133**

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D24/145, 132; D8/51, 52, 54; 606/45, 51,
606/41, 1, 40, 167, 174, 277, 324, 120, 147,
606/151, 205, 206, 207
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D454,951 S * 3/2002 Bon D24/112
D466,209 S * 11/2002 Bon D24/112
D509,589 S * 9/2005 Wells D24/145
D606,192 S * 12/2009 Summerer et al. D24/133
D636,872 S * 4/2011 Marescaux et al. D24/133
D637,288 S * 5/2011 Houghton D24/133
8,241,282 B2 * 8/2012 Unger et al. 606/51
D679,010 S * 3/2013 Kitayama et al. D24/133

D679,011 S * 3/2013 Kitayama et al. D24/133
D687,549 S * 8/2013 Johnson et al. D24/133
D693,466 S * 11/2013 Dallemagne et al. D24/144
D697,618 S * 1/2014 Gonzales et al. D24/133
D704,333 S * 5/2014 Casey et al. D24/133
D708,742 S * 7/2014 Dallemagne et al. D24/133
D717,431 S * 11/2014 Cardinale et al. D24/133
2011/0054468 A1 * 3/2011 Dycus 606/45
2011/0060356 A1 * 3/2011 Reschke et al. 606/167
2011/0190765 A1 * 8/2011 Chojin 606/41
2011/0251611 A1 * 10/2011 Horner et al. 606/49
2012/0022583 A1 * 1/2012 Sugalski et al. 606/205

* cited by examiner

Primary Examiner — Ian Simmons

Assistant Examiner — Samantha Q Lawrence

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

(57) **CLAIM**

The ornamental design for an operation handle for a medical manipulator system, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of an operation handle for medical manipulator system showing my new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom view thereof.

The operation handle is shown with a symbolic break in its length. The appearance of any portion of the article between the break lines forms no part of the claimed design.

The dashed lines illustrate portions of the medical manipulator that form no part of the claimed design.

1 Claim, 6 Drawing Sheets

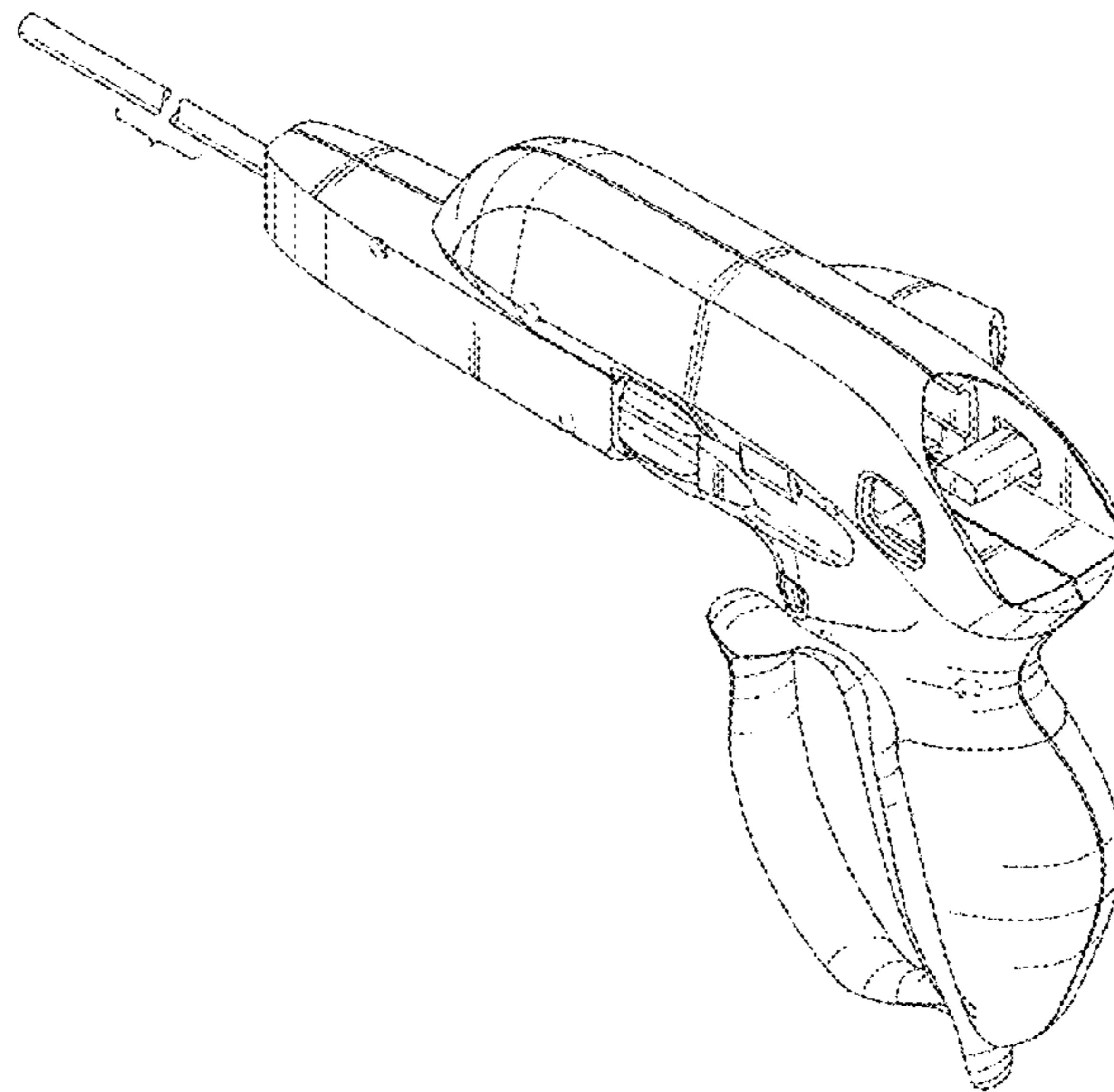
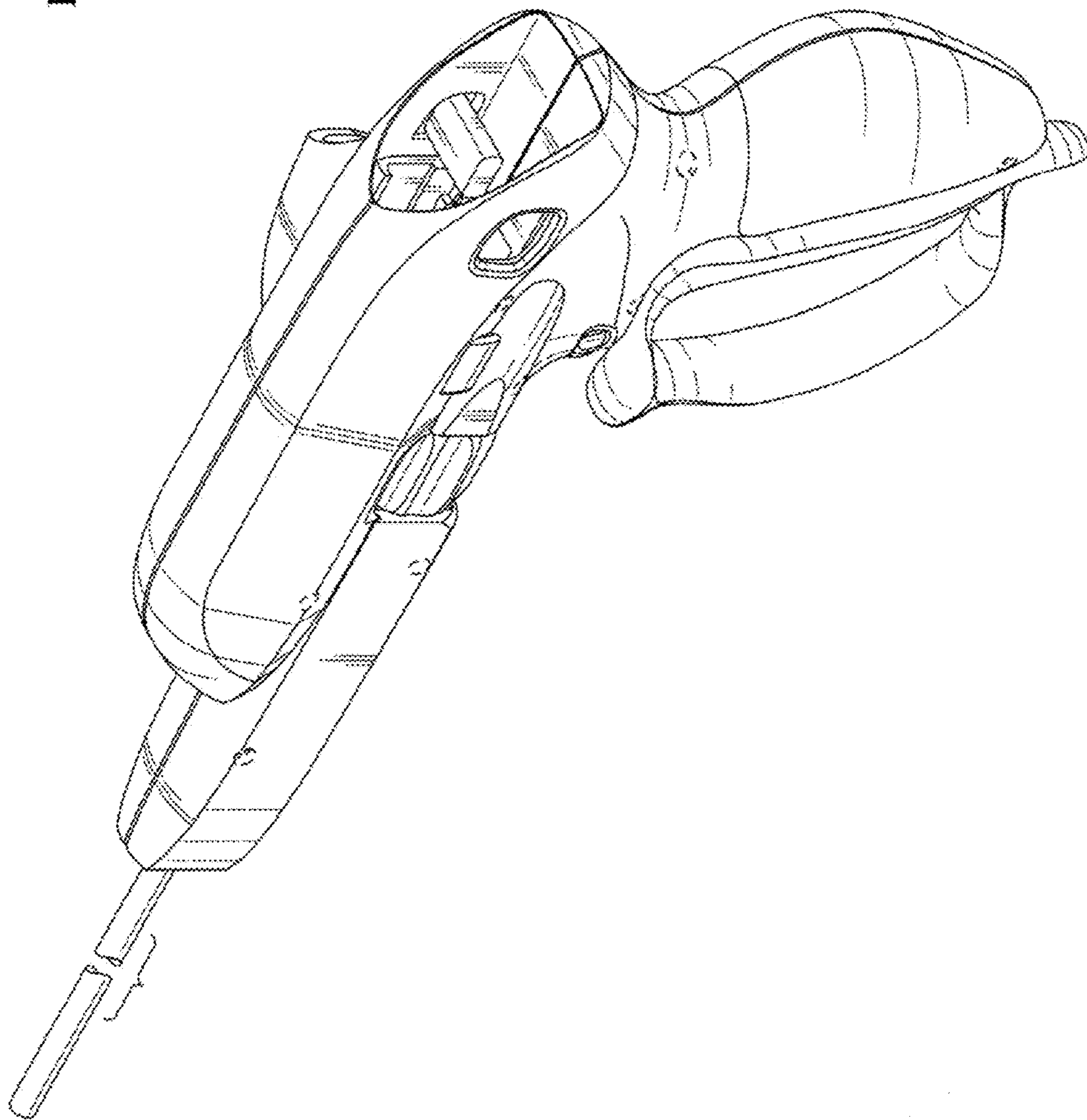


Fig. 1



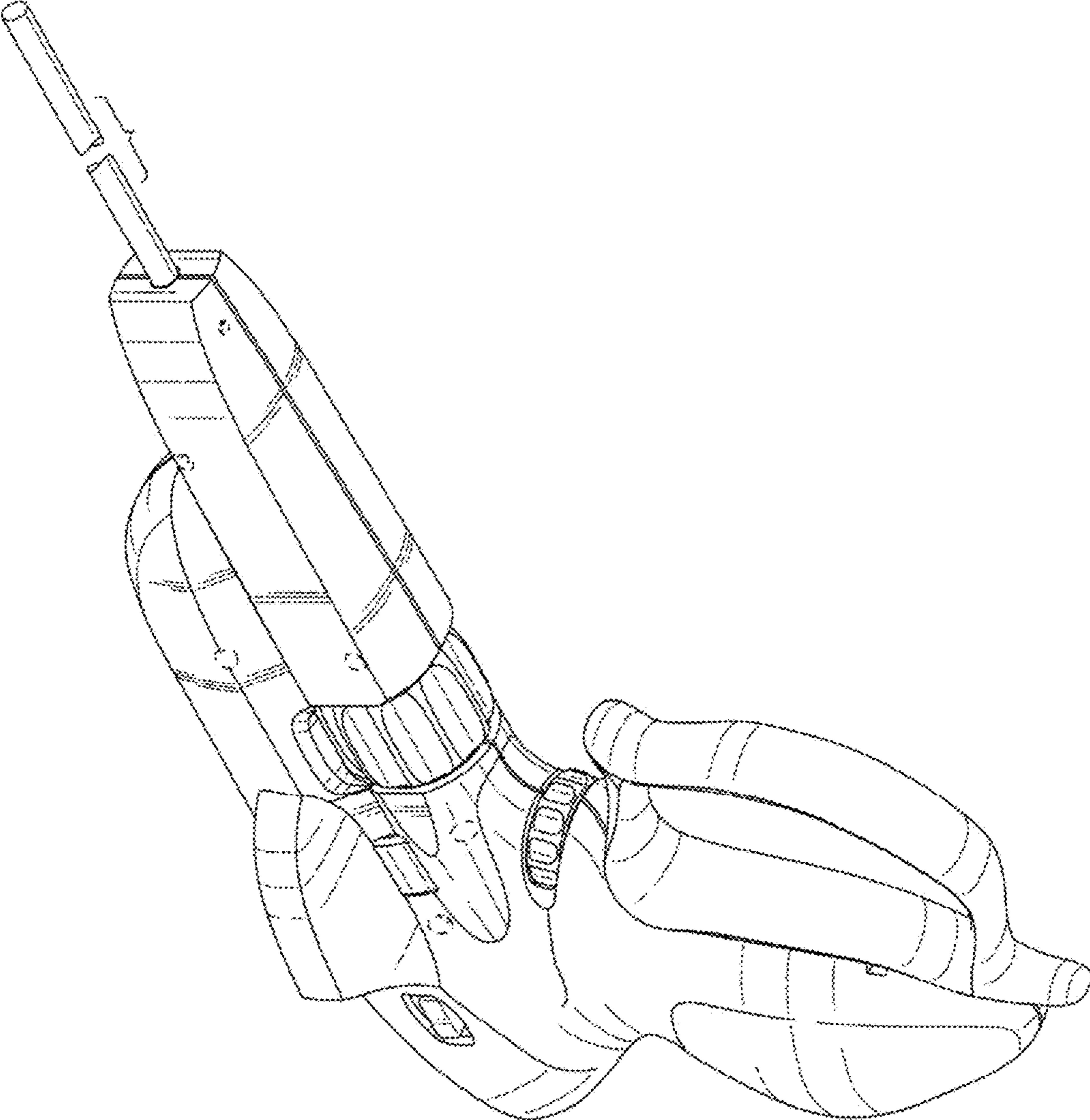


Fig. 2

Fig. 3

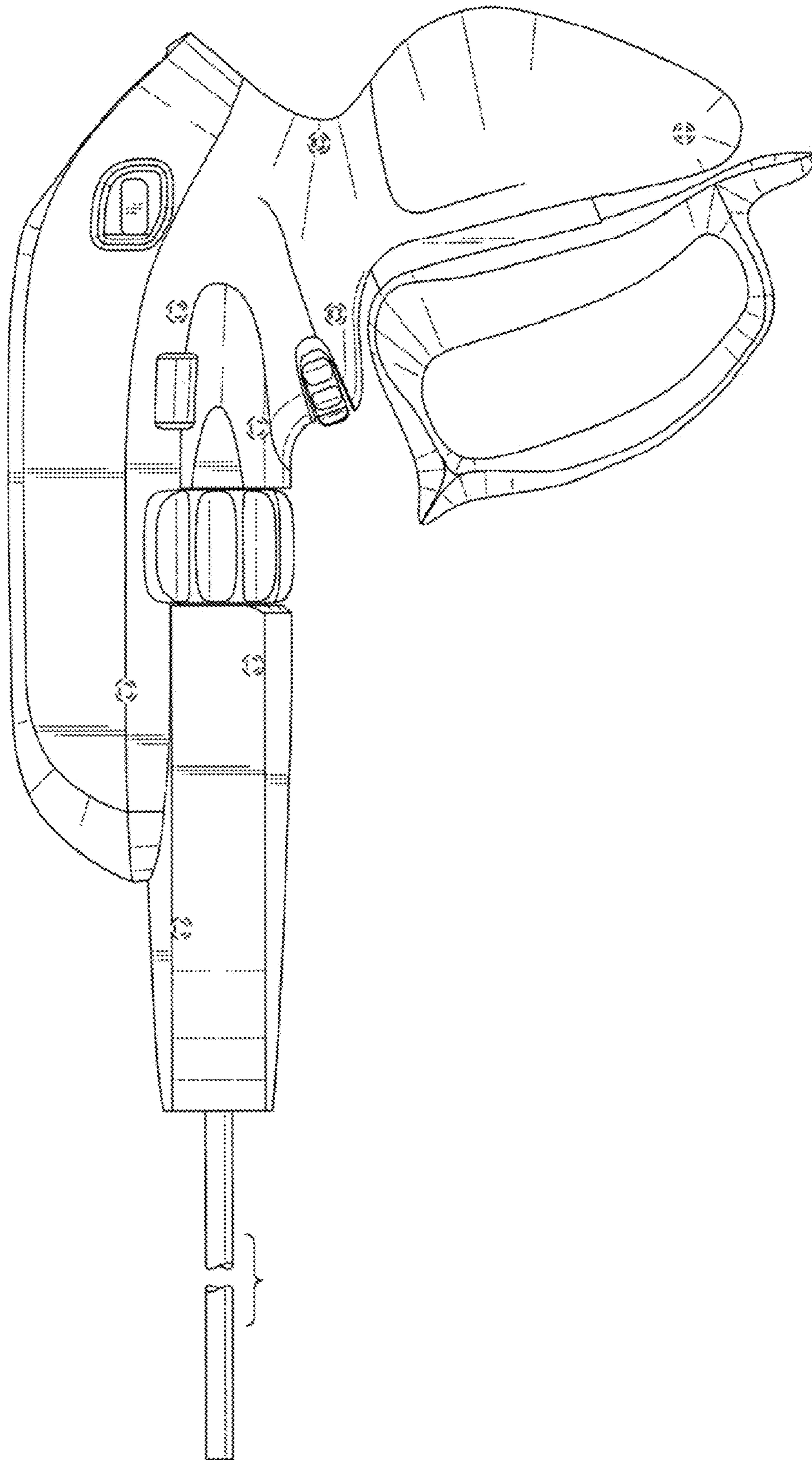


Fig. 4

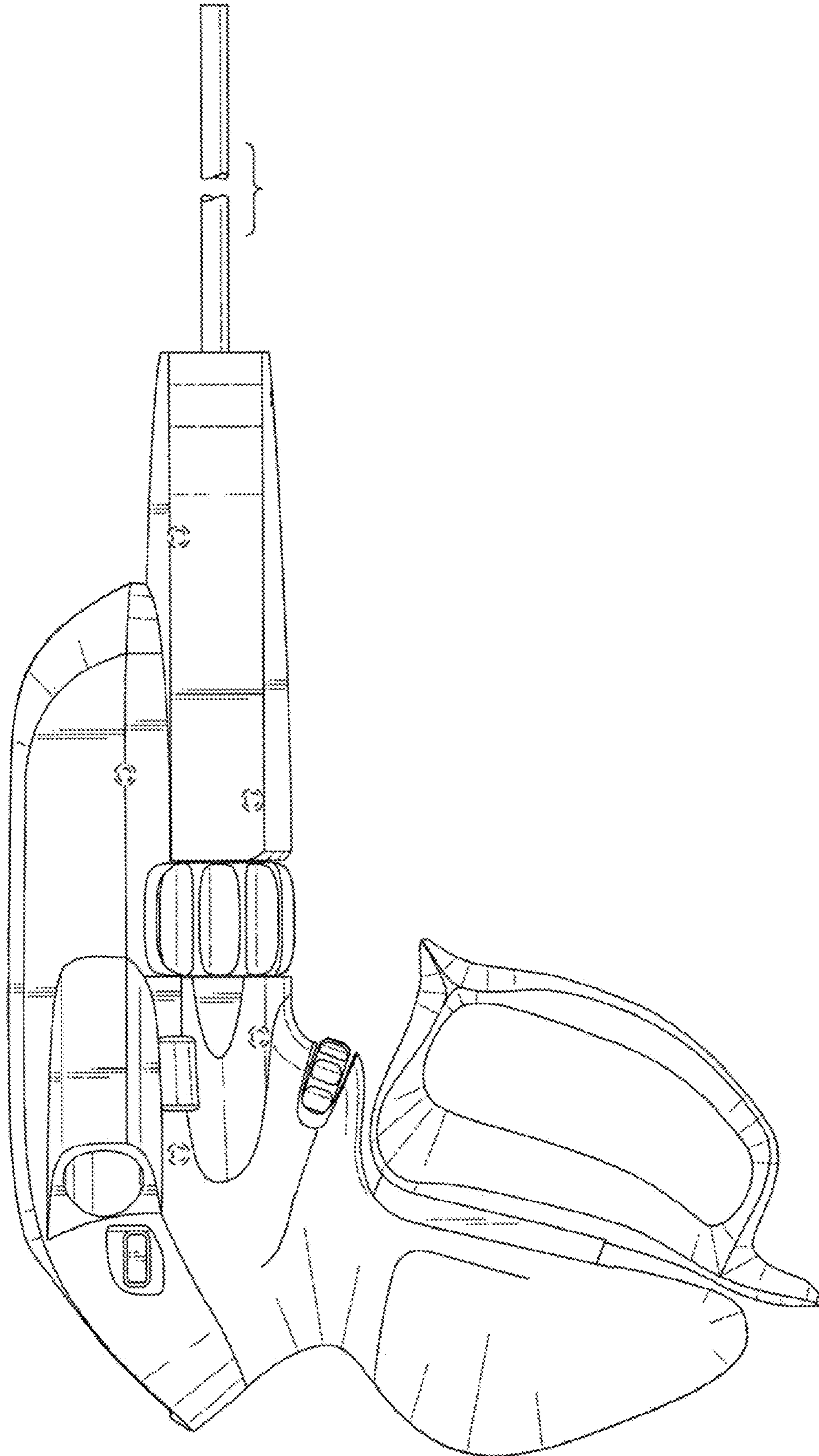


Fig. 6

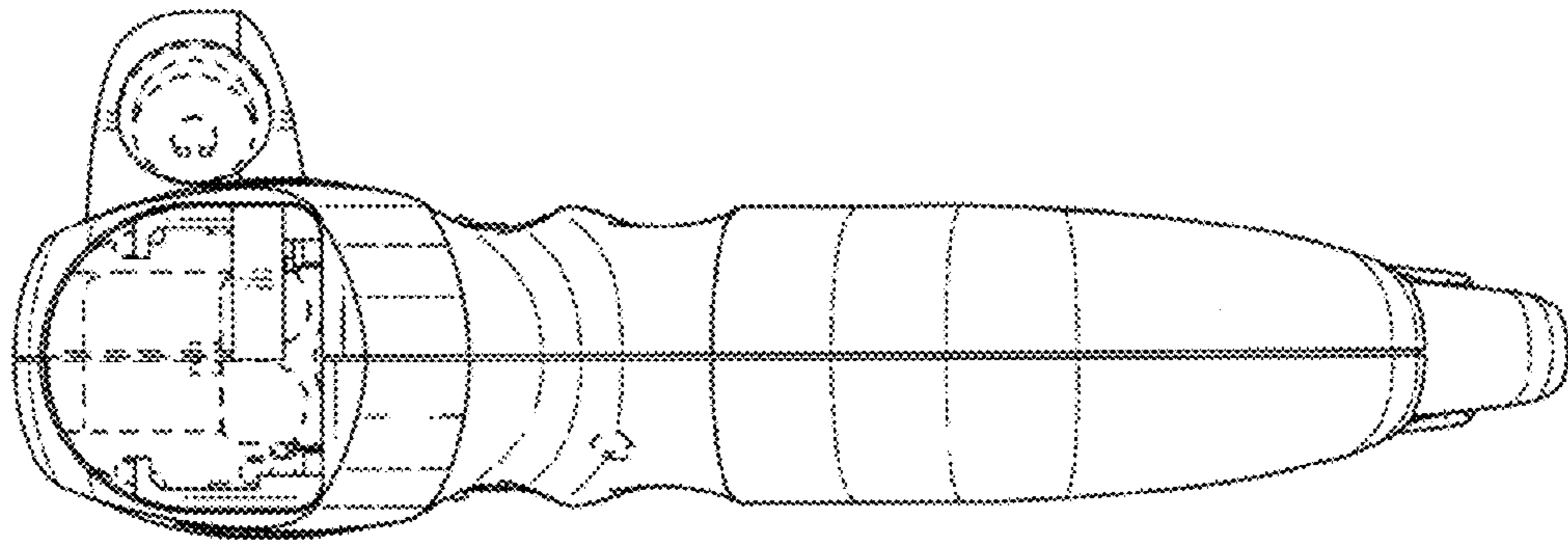


Fig. 5

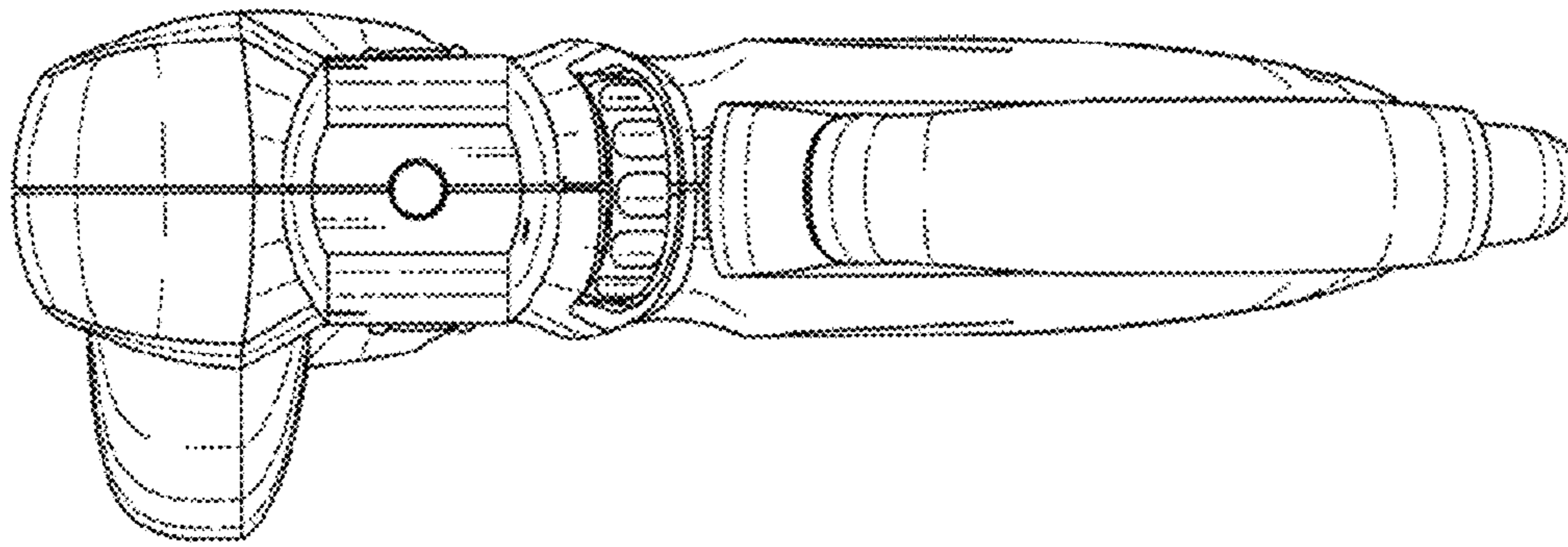


Fig. 7

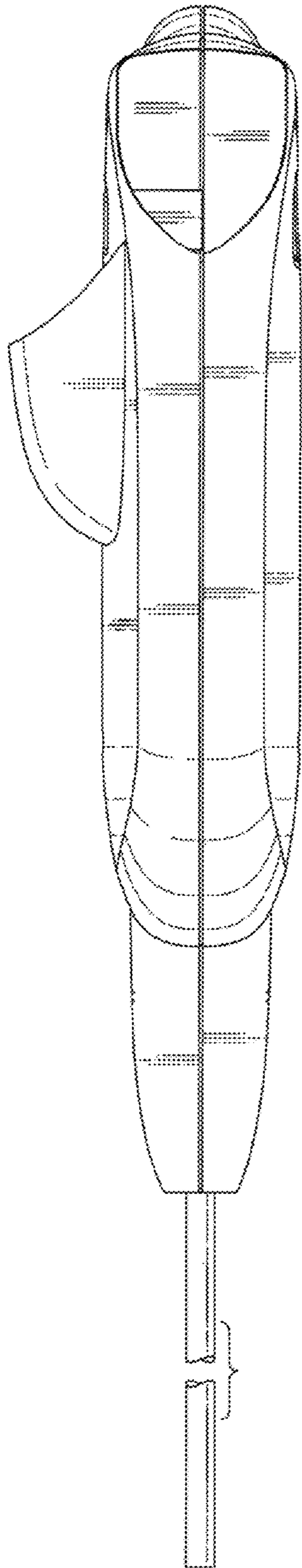


Fig. 8

