



US00D449693B1

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

(10) **Patent No.:** **US D449,693 S**

(45) **Date of Patent:** **** Oct. 23, 2001**

(54) **DENTAL MOTOR INJECTOR**

5,611,784 * 3/1997 Barresi et al. 604/211

(75) Inventors: **Mutsumi Shibuya**, Tokyo; **Yukio Kawagishi**, deceased, late of Tokyo; by **Kayoko Kawagishi**, legal representative, Machida; by **Masayuki Kawagishi**, legal representative, Machida; by **Youko Kawasaki**, legal representative, Machida; **Fumio Tanaka**, Tokyo, all of (JP)

* cited by examiner

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(73) Assignee: **Showa Yakuhin Kako Co., Ltd.**, Chiba-ken (JP)

(57) **CLAIM**

The ornamental design for a dental motor injector, as shown and described.

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

DESCRIPTION

(21) Appl. No.: **29/125,705**

FIG. 1 is a perspective view of a dental motor injector embodying our design;

(22) Filed: **Jun. 27, 2000**

FIG. 2 is a front elevational view of the dental motor injector;

(30) **Foreign Application Priority Data**

Dec. 28, 1999 (JP) 11-37155

FIG. 3 is a rear elevational view thereof;

(51) **LOC (7) Cl.** **24-02**

FIG. 4 is a left side elevational view thereof;

(52) **U.S. Cl.** **D24/176; D24/112**

FIG. 5 is a right side elevational view thereof;

(58) **Field of Search** **D24/112, 113, D24/176; 604/187-243; 128/DIG. 1**

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a view in section taken along line 8—8 of FIG. 5; and,

(56) **References Cited**

U.S. PATENT DOCUMENTS

D. 422,697 * 4/2000 Bellhouse et al. D24/112

FIG. 9 is a perspective view of the dental motor injector with a needle attached to a barrel thereof and with an injection cartridge charged in the barrel.

1 Claim, 6 Drawing Sheets

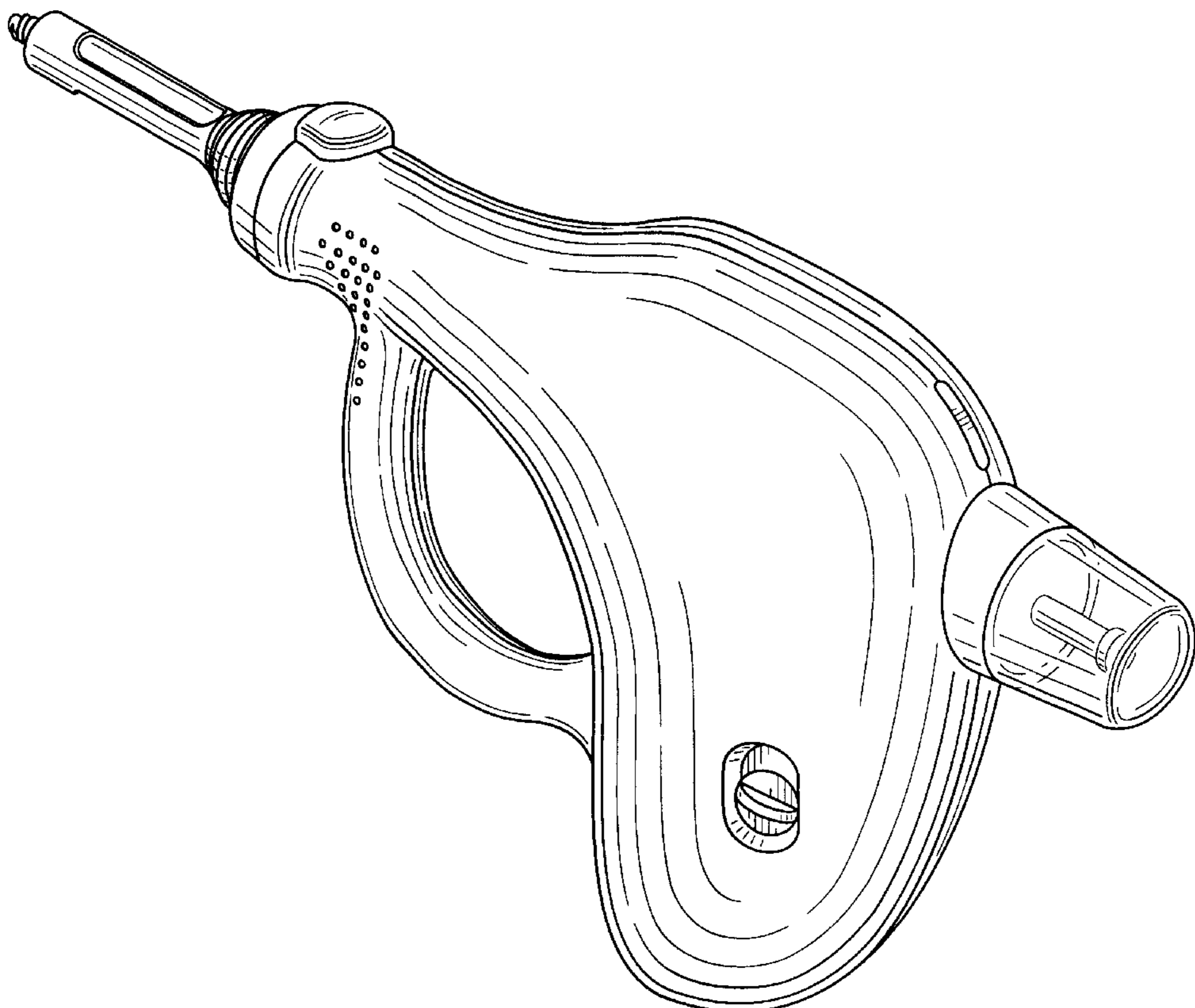


FIG. 1

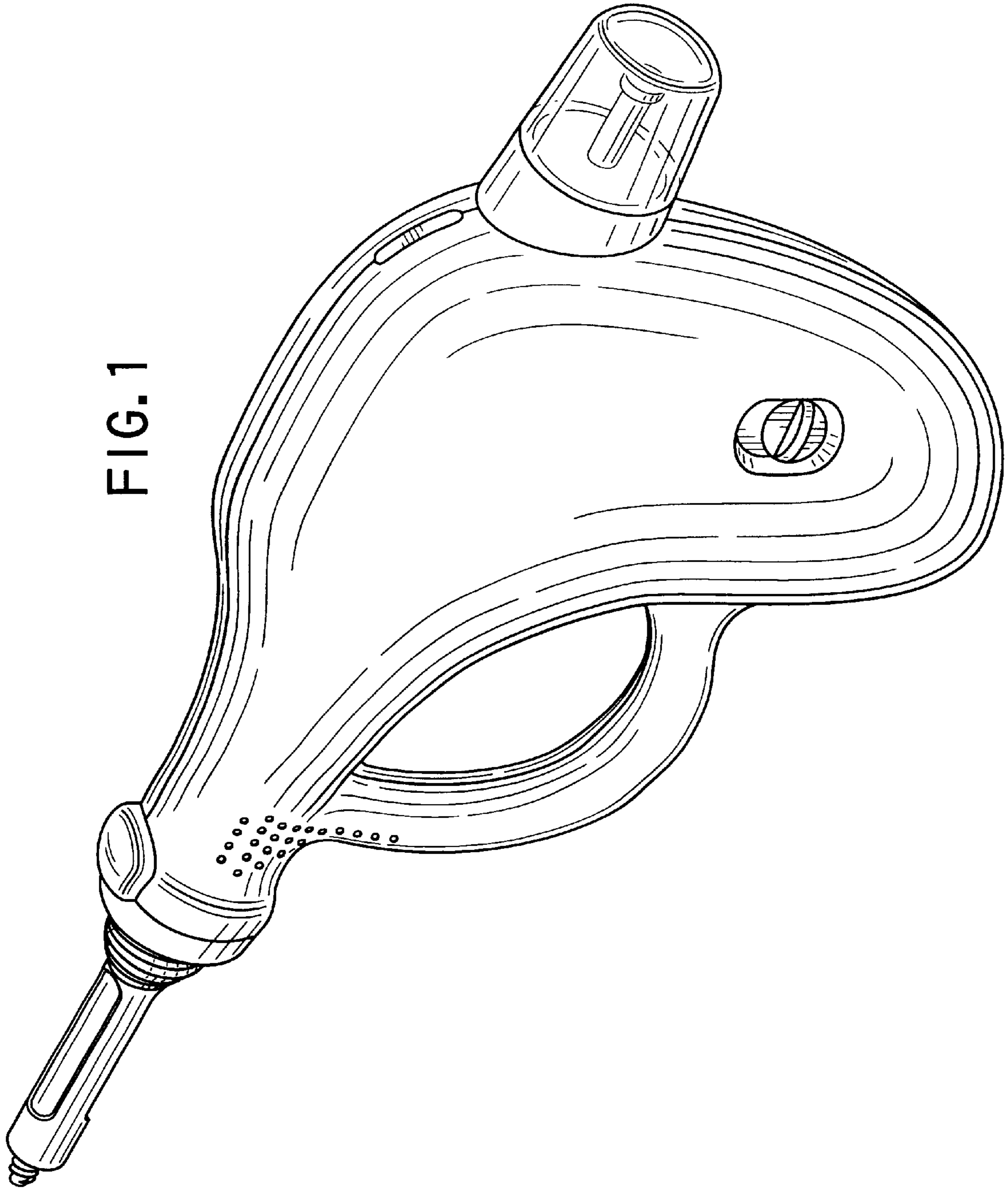


FIG. 2

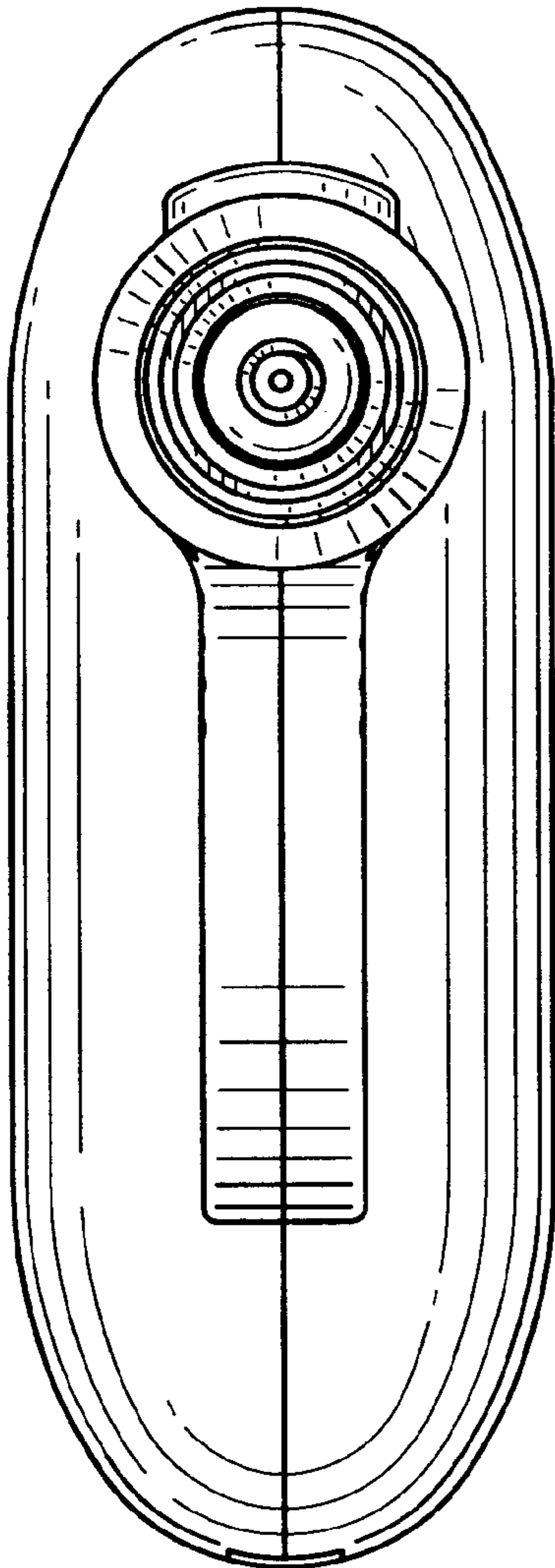


FIG. 3

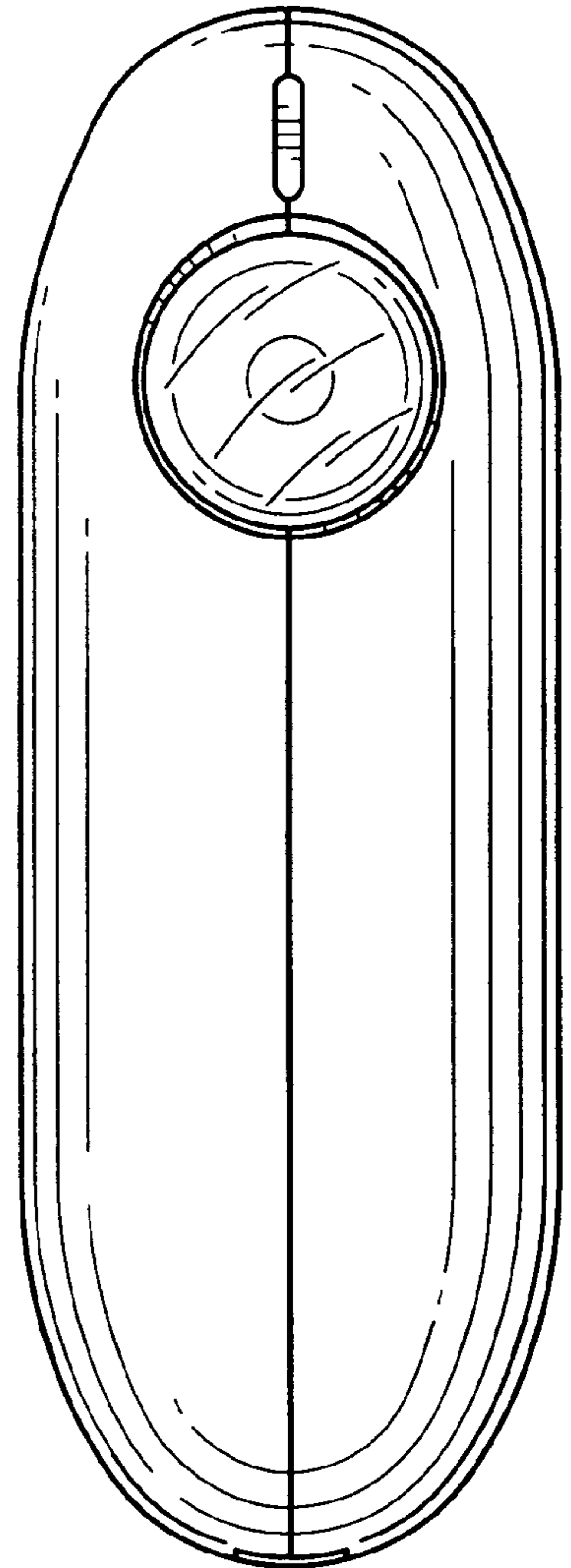


FIG. 8

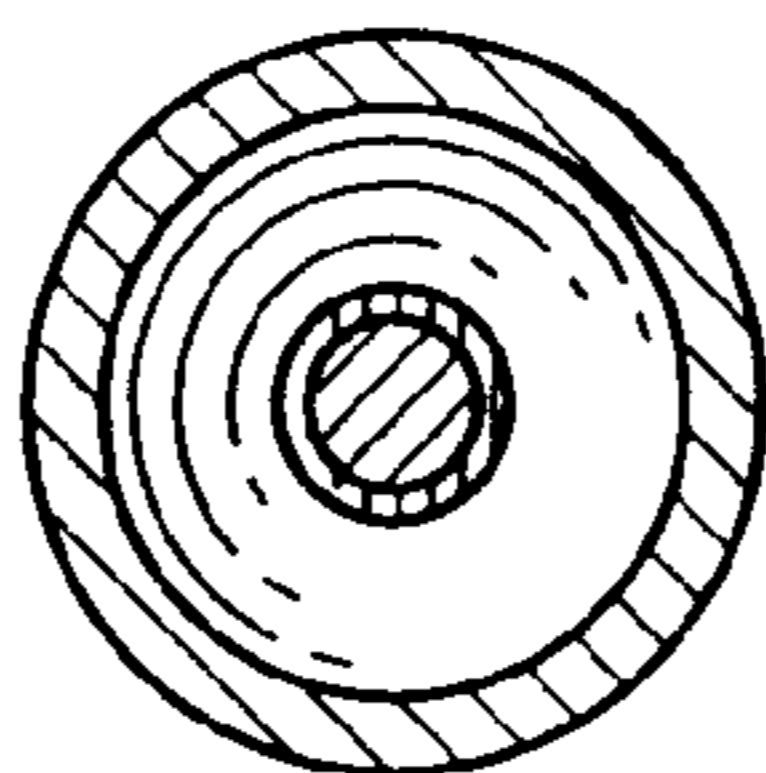


FIG. 4

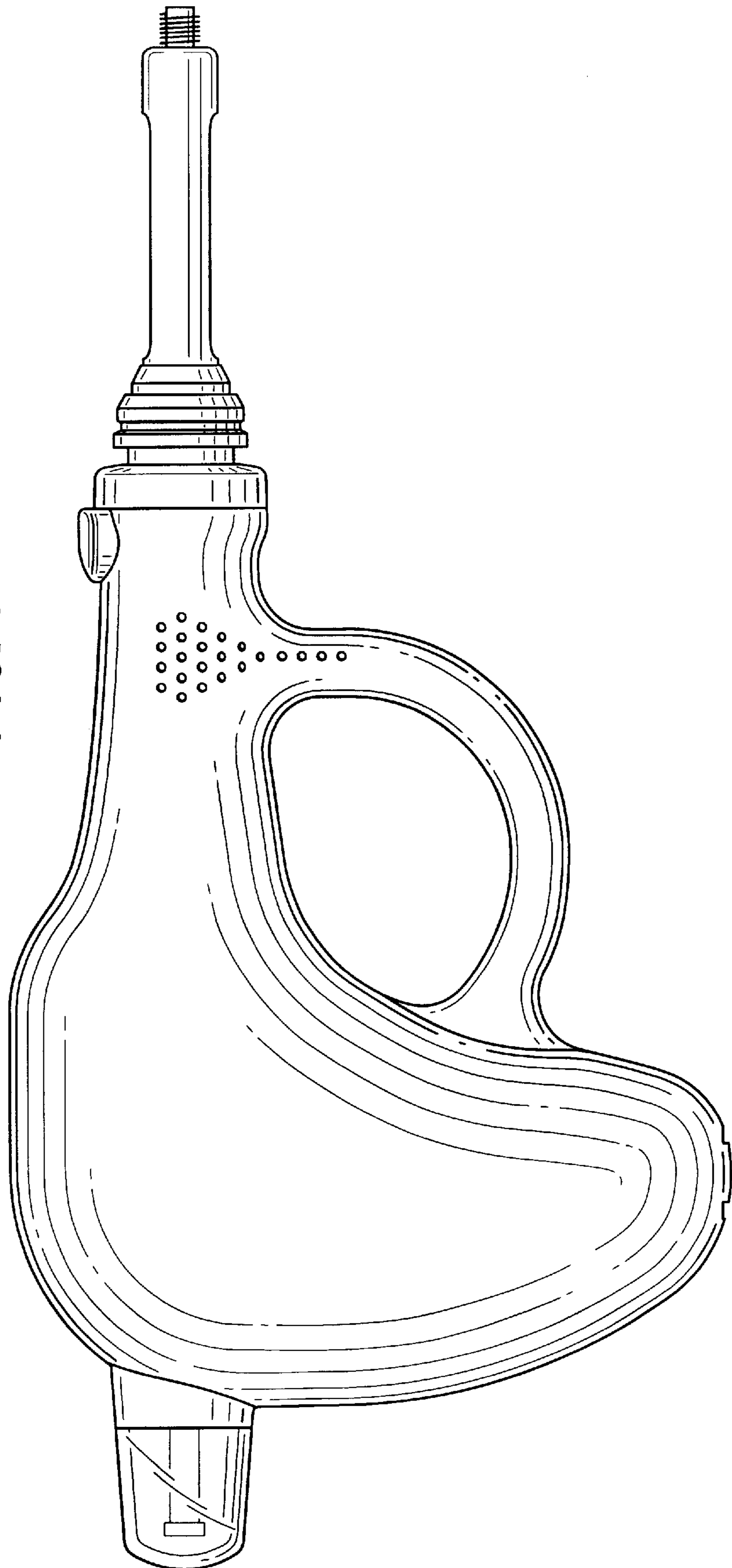


FIG. 5

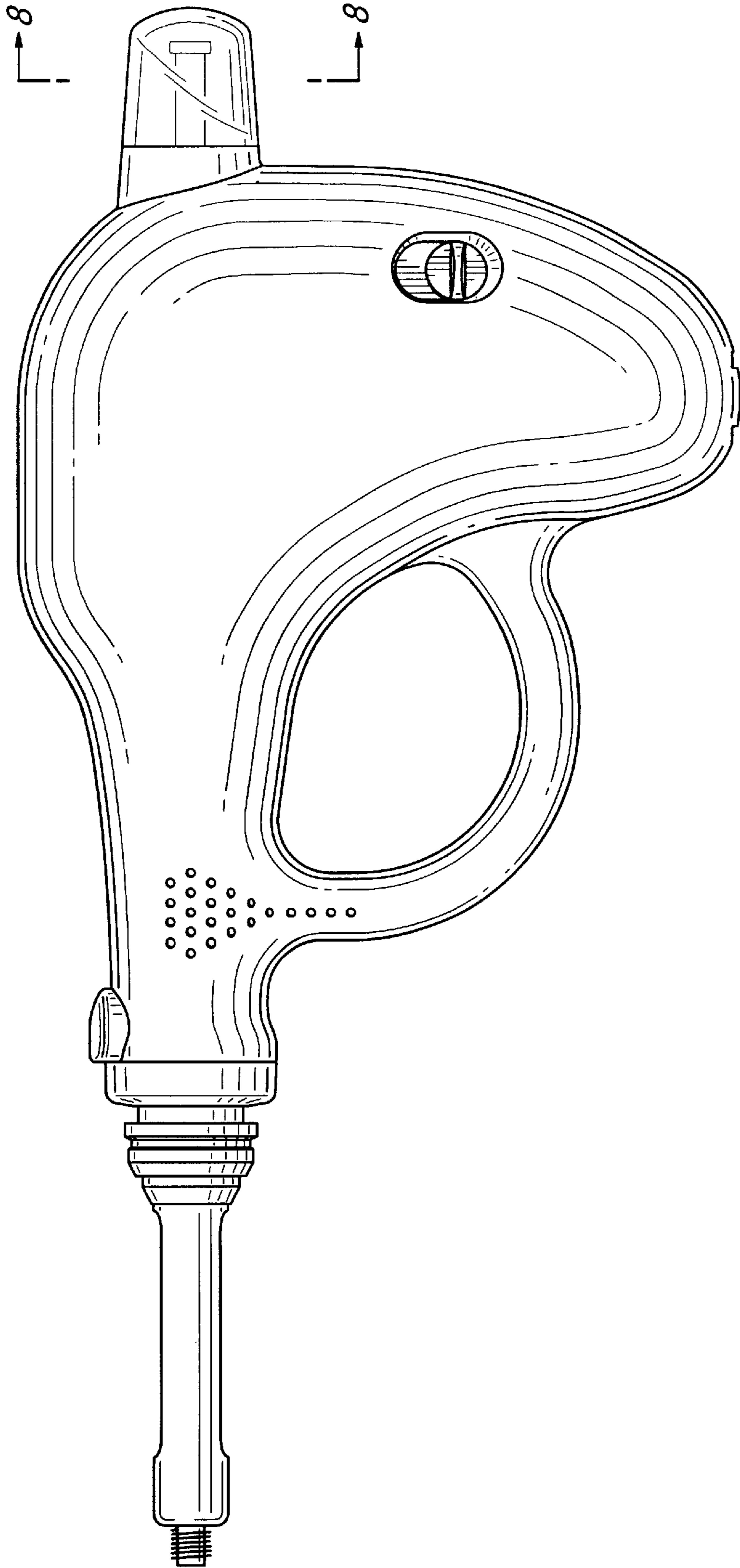


FIG. 6

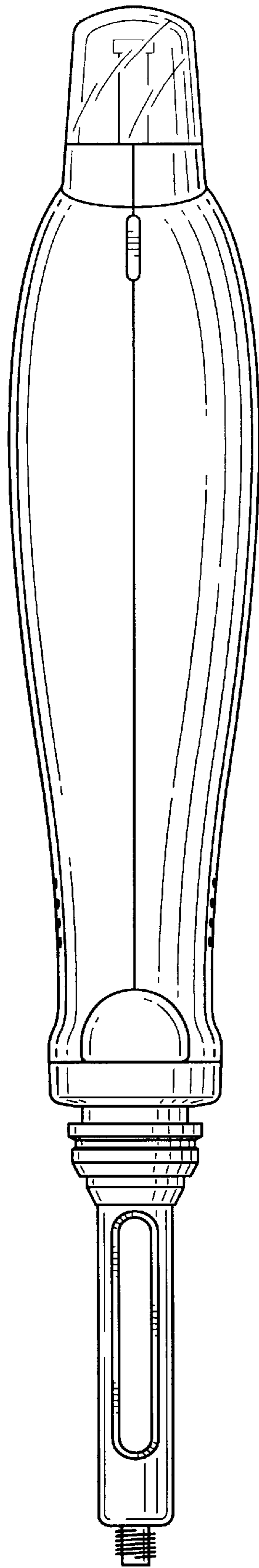
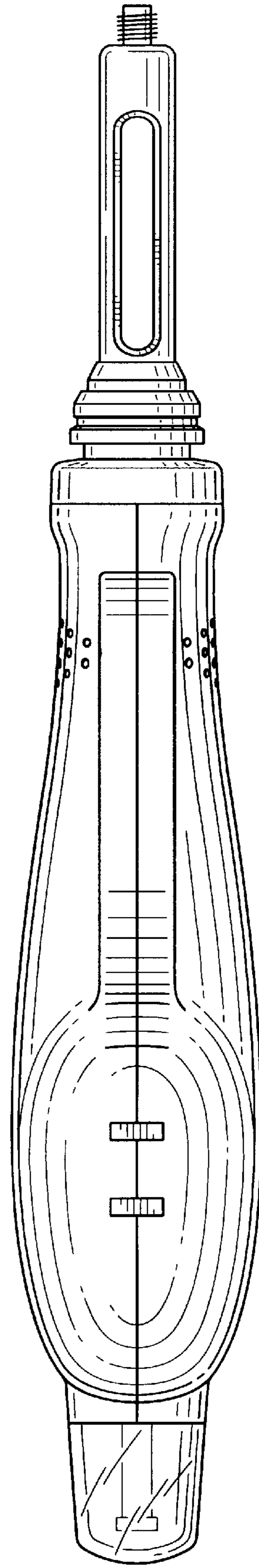


FIG. 7



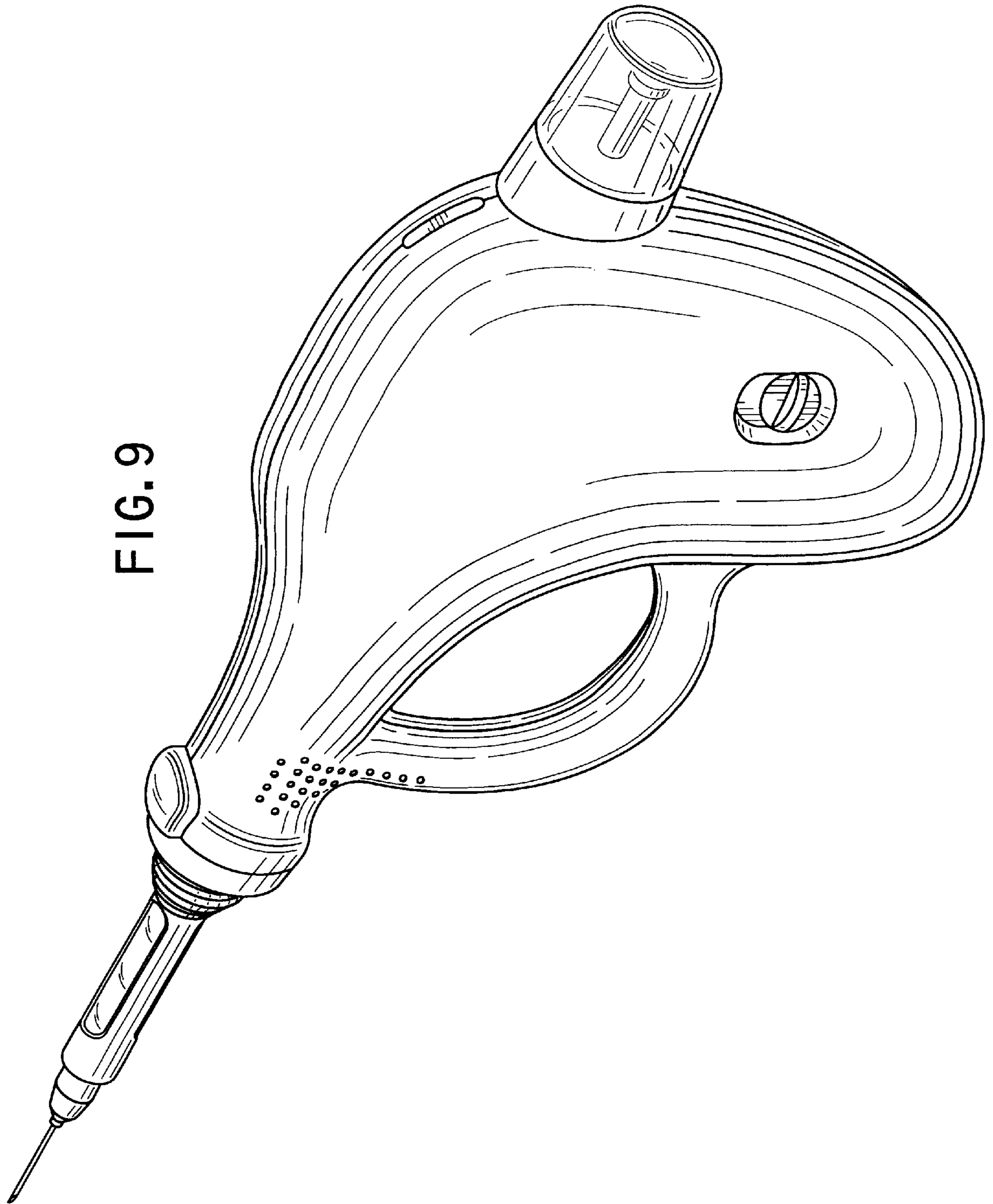


FIG. 9

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : Des 449,693 S
DATED : October 23, 2001
INVENTOR(S) : Mutsumi Shibuya et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page,

Item [73, replace the paragraph “[73] Assignee: **Showa Yakuhin Kako Co., Ltd.,**
Chiba-ken (JP)”

with the following: -- Assignee: **Showa Yakuhin Kako Co., Ltd.,**
Tokyo (JP), and
HIOS Inc.
Chiba-ken (JP) --

Signed and Sealed this

Sixth Day of August, 2002

Attest:



Attesting Officer

JAMES E. ROGAN
Director of the United States Patent and Trademark Office