



US00D455210S

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

(10) **Patent No.:** **US D455,210 S**

(45) **Date of Patent:** **** Apr. 2, 2002**

(54) **ULTRASONIC TRANSDUCER ASSEMBLY
CONTROLLER**

4,435,614 A 3/1984 McAusland
4,474,174 A 10/1984 Petruzzi

(List continued on next page.)

(75) **Inventors:** **Richard W. Henderson**, Fremont; **Jeff
Neil Gamelsky**, Palo Alto; **Glenn
Hansen**, San Jose; **Gilbert Y. Wong**,
San Francisco; **William J. Park**, San
Jose, all of CA (US)

OTHER PUBLICATIONS

“Ultrasonic Transducer Assembly Controller,” U.S. applica-
tion No. 09/434,594, filed Nov. 5, 1999; inventors: William
J. Park, Douglas B. Dull, John W. Eaton, Robert A. Howard,
Stephen L. Ijams, Richard W. Henderson, Jeff Gamelsky,
Glenn Hansen, and Gill Wong.

(73) **Assignee:** **Acuson Corporation**, Mountain View,
CA (US)

“Medical Diagnostic Ultrasound Catheter with Dielectric
Isolation,” U.S. application No. 09/401,632, filed Sep. 22,
1999; inventors: Randall L. Schlesinger and Mathew
Rahimi.

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

(21) **Appl. No.:** **29/113,501**

Primary Examiner—Ian Simmons

(22) **Filed:** **Nov. 5, 1999**

(74) *Attorney, Agent, or Firm*—Brinks Hofer Gilson &
Lione

Related U.S. Application Data

(63) Continuation of application No. 09/215,970, filed on Dec.
18, 1998, now abandoned, which is a continuation-in-part of
application No. 08/792,897, filed on Jan. 31, 1997, now Pat.
No. 5,954,654.

(57) **CLAIM**

The ornamental design for an ultrasonic transducer assembly
controller, as shown and described.

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

DESCRIPTION

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

FIG. 1 is a front-left view of an ultrasonic transducer
assembly controller that incorporates our new design.

(58) **Field of Search** D24/133, 112,
D24/144, 186, 187; 600/462, 459, 460,
463, 585

FIG. 2 is a top view thereof.

FIG. 3 is a bottom view thereof.

FIG. 4 is a left-side view thereof.

FIG. 5 is a right-side view thereof.

FIG. 6 is a front view thereof; and,

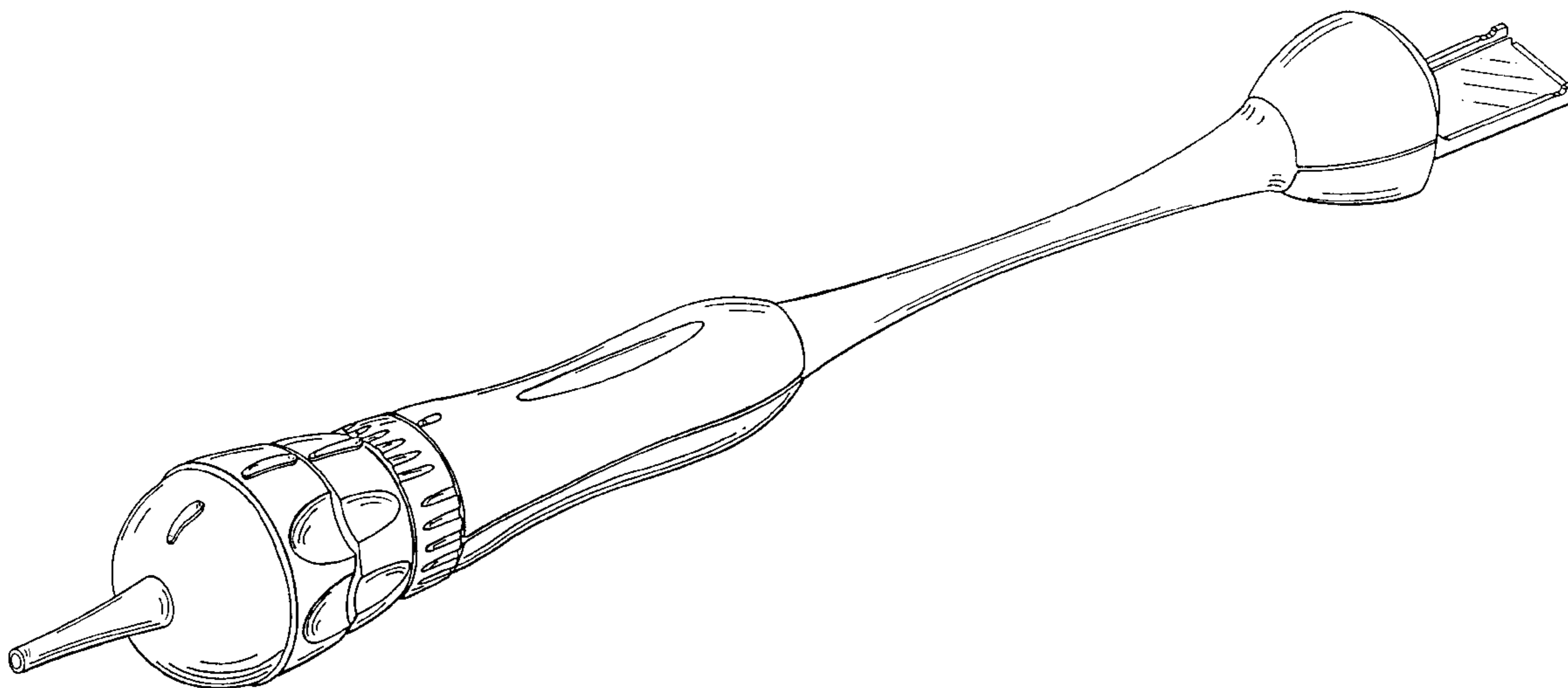
FIG. 7 is a rear view thereof.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,191,193 A 3/1980 Seo
4,207,873 A 6/1980 Kruey

1 Claim, 3 Drawing Sheets



US D455,210 S

Page 2

U.S. PATENT DOCUMENTS

4,605,009 A	8/1986	Pourcelot et al.	5,439,006 A	8/1995	Brennen et al.
4,794,931 A	1/1989	Yock	5,453,575 A	9/1995	O'Donnell et al.
4,809,704 A	3/1989	Sogawa et al.	5,456,258 A	10/1995	Kondo et al.
4,841,976 A	6/1989	Packard et al.	5,462,527 A	10/1995	Stevens-Wright et al.
4,951,677 A	8/1990	Crowley et al.	5,465,716 A	11/1995	Avitall
5,190,050 A *	3/1993	Nitzsche 600/585	5,479,930 A	1/1996	Gruner et al.
5,207,225 A	5/1993	Oaks et al.	5,489,270 A	2/1996	Van Erp
5,275,151 A	1/1994	Shockey et al.	5,492,126 A	2/1996	Hennige et al.
D347,473 S *	5/1994	Nitzsche D24/112	5,512,035 A	4/1996	Konstorum et al.
5,322,064 A	6/1994	Lundquist	5,514,115 A	5/1996	Frantzen et al.
5,336,182 A	8/1994	Lundquist et al.	5,527,279 A	6/1996	Imran
5,345,940 A	9/1994	Seward et al.	5,531,685 A	7/1996	Hemmer et al.
5,351,692 A	10/1994	Dow et al.	5,545,200 A	8/1996	West et al.
5,359,994 A	11/1994	Krauter et al.	5,571,085 A	11/1996	Accisano, III
5,364,352 A	11/1994	Cimino et al.	D381,076 S *	7/1997	Thornton et al. D24/138
5,368,037 A	11/1994	Eberle et al.	5,656,030 A	8/1997	Hunjan et al.
5,383,852 A	1/1995	Stevens-Wright	5,662,119 A	9/1997	Brennen et al.
5,383,923 A	1/1995	Webster, Jr.	5,662,606 A	9/1997	Cimino et al.
5,385,148 A	1/1995	Lesh et al.	D384,743 S *	10/1997	Chia D24/133
5,395,327 A	3/1995	Lundquist et al.	5,722,402 A	3/1998	Swanson et al.
5,395,329 A	3/1995	Fleischhackor et al.	5,722,403 A	3/1998	McGee et al.
5,397,304 A	3/1995	Truckai	5,741,320 A	4/1998	Thornton et al.
5,398,689 A	3/1995	Connor et al.	5,865,801 A	2/1999	Houser
5,402,793 A	4/1995	Gruner et al.	5,876,345 A *	3/1999	Eaton et al. 600/466
5,413,107 A	5/1995	Oakley et al.	5,938,616 A *	8/1999	Eaton et al. 600/463
5,431,168 A	7/1995	Webster, Jr.	5,954,654 A	9/1999	Eaton et al.

* cited by examiner

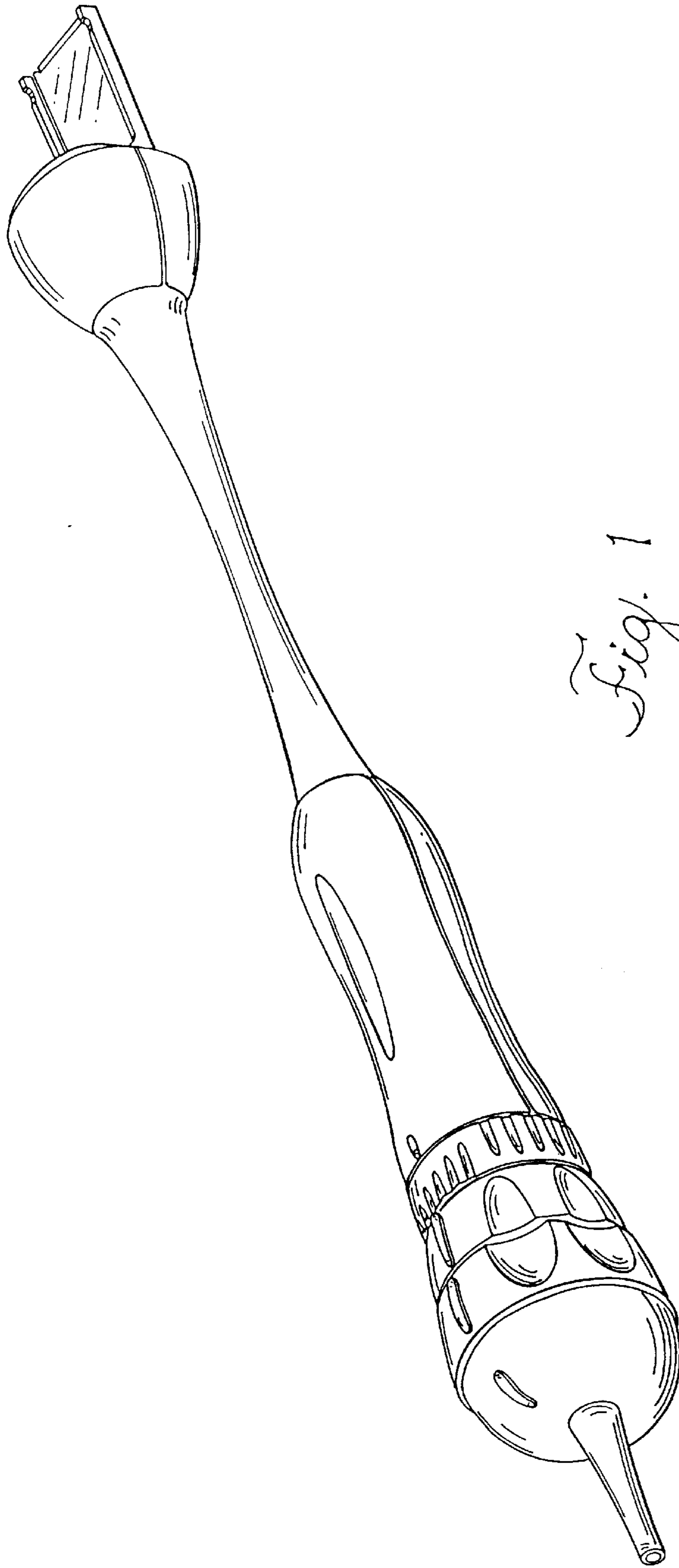


Fig. 1

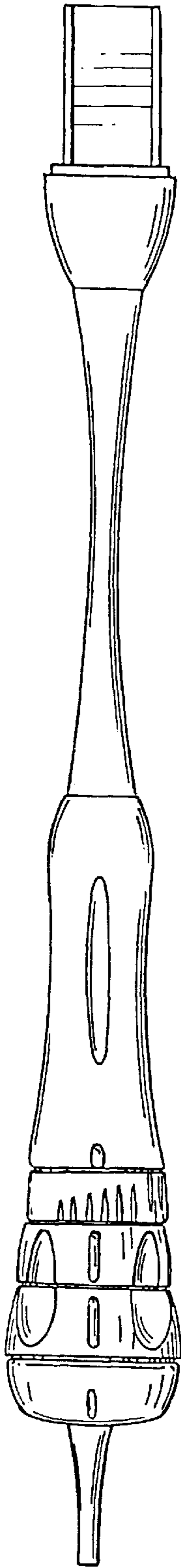


Fig. 2

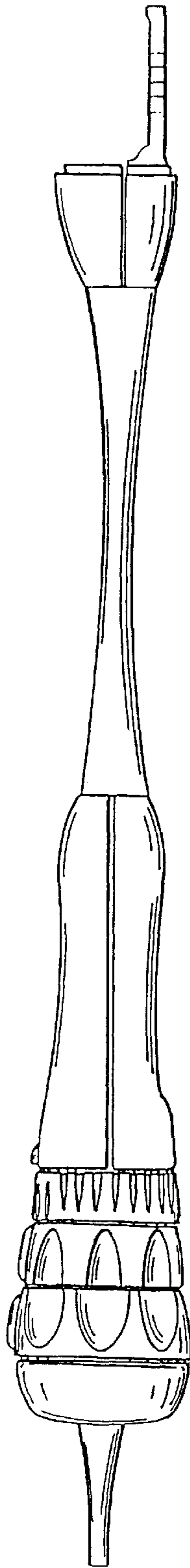


Fig. 4

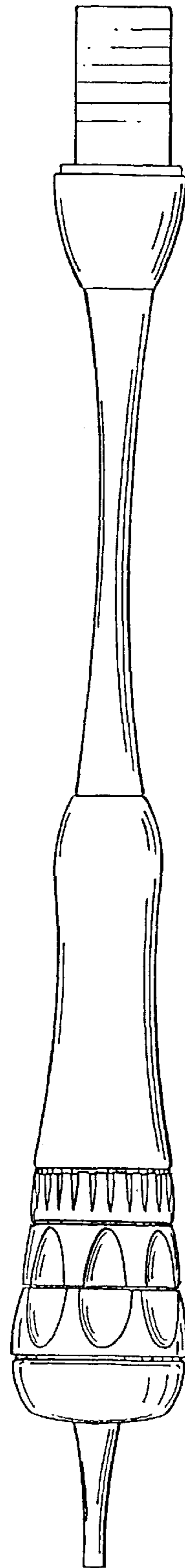


Fig. 3

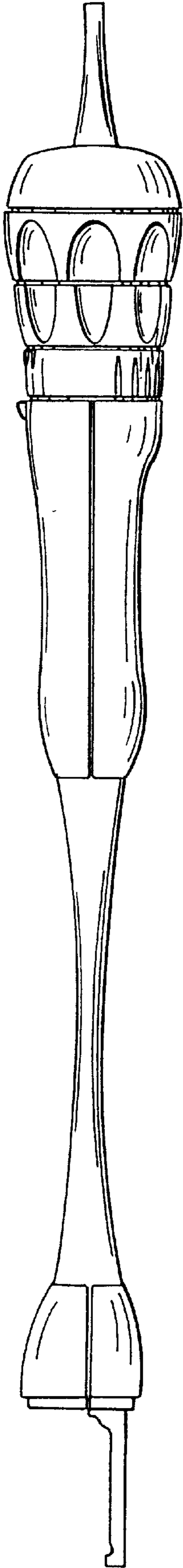


Fig. 5

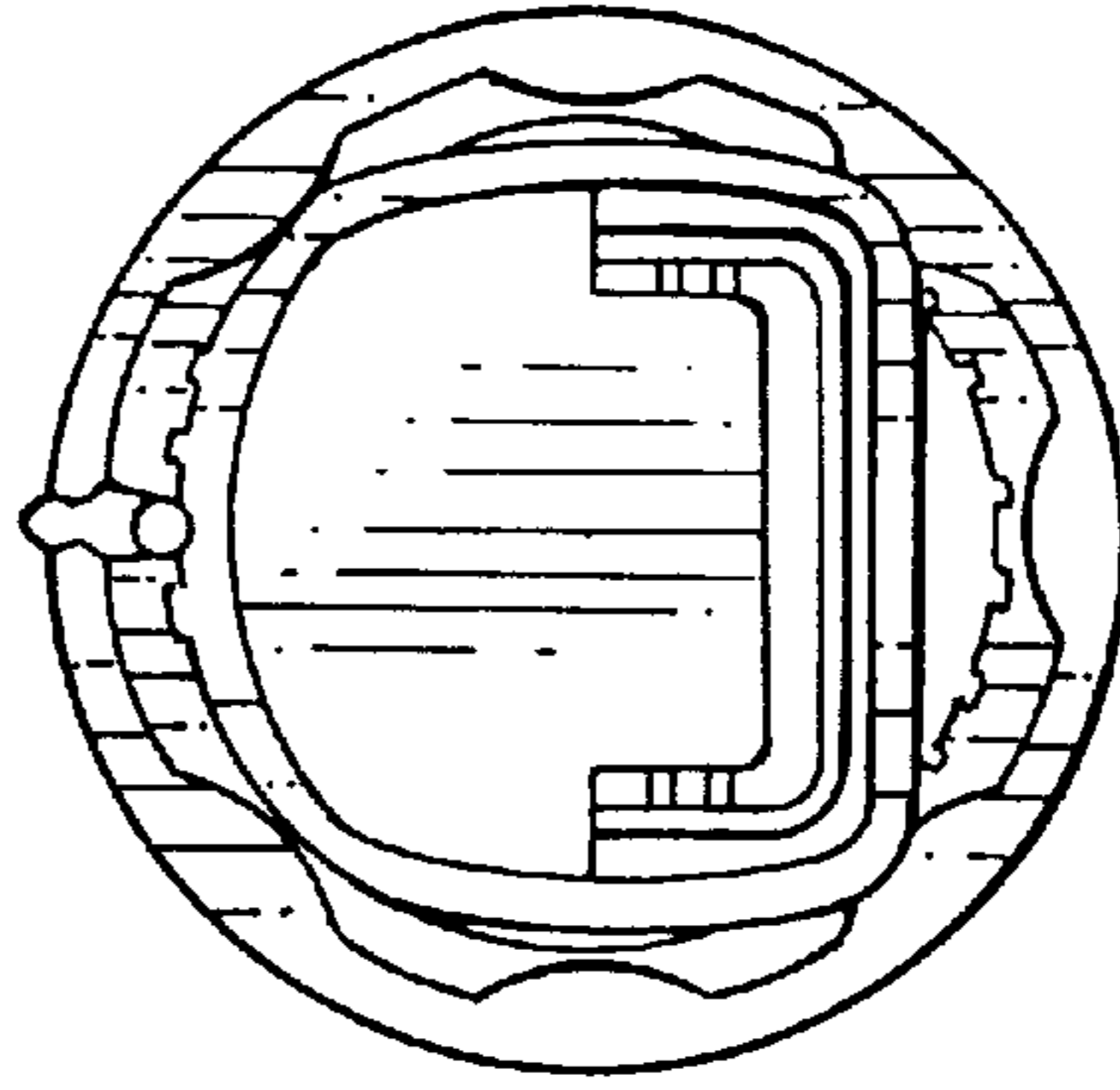


Fig. 7

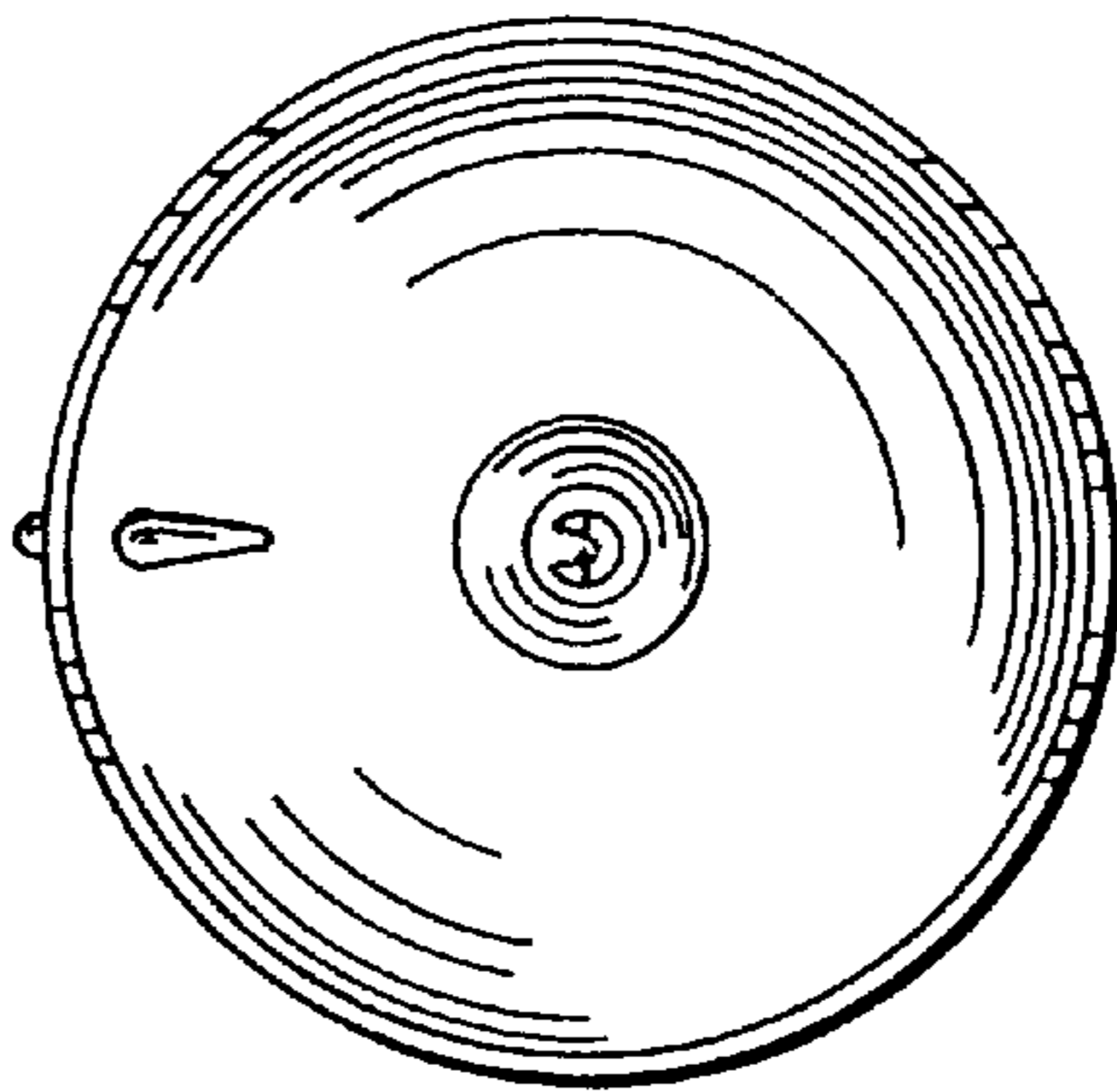


Fig. 6