



US00D411010S

United States Patent [19]

[11] **Patent Number: Des. 411,010**

Harbrecht et al.

[45] **Date of Patent: ** Jun. 15, 1999**

[54] **SINGLE-USE DISPOSABLE SPIROMETRY SENSOR**

[75] Inventors: **Brian Arthur Harbrecht**, Platte City; **Alvin Frederick Meyer**, Kansas City, both of Mo.; **William D. Uzzell**, Springhill, Kans.; **Christopher David Lasnier**, Overland Park, Kans.; **Rick D. Harryman**, Olathe, Kans.

[73] Assignee: **Nellcor Puritan Bennett**, Pleasanton, Calif.

[**] Term: **14 Years**

[21] Appl. No.: **29/076,922**

[22] Filed: **Sep. 24, 1997**

[51] **LOC (6) Cl.** **24-02**

[52] **U.S. Cl.** **D24/164**

[58] **Field of Search** D24/164; 600/538, 600/541; 128/725, 726, 727, 728; 93/861.52, 861.42, 861.65, 861.66, 861.75, 861.03, 861.53

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 254,324	2/1980	Thead, Jr.	.....	D24/164
D. 254,443	3/1980	Adams	.....	D24/164
4,635,647	1/1987	Choksi	.....	128/728
5,379,650	1/1995	Kofoed et al.	.....	128/725 X
5,562,101	10/1996	Hankinson et al.	.....	128/725
5,763,792	6/1998	Kullik	.....	73/861.53

OTHER PUBLICATIONS

Phillips 66 Data Sheet for K-Resin Styrene-Butadiene Copolymers (SBC) KR01 (1997).
Phillips 66 Data Sheet for K-Resin Styrene-Butadiene Copolymers (SBC) KR03 (1997).

Phillips 66 Data Sheet for K-Resin Styrene-Butadiene Copolymers (SBC) BK 10 Development Grade (1997).
Schiller America Inc. Data Sheets for Spirovit SP-200.
Nellcor Puritan Bennett brochure re Renaissance Spirometry System (1996).
Spirometry Q & A write-up (1991).
Nellcor Puritan Bennett data sheet for Renaissance Spirometry System (1996).
Nellcor Puritan Bennett Sample Report Formats (1996).
Tetko Brochure re definitions, conversion factors, and formulas for specifying wire cloth (admitted prior art).

Primary Examiner—Stella Reid
Attorney, Agent, or Firm—Hovey, Williams, Timmons & Collins

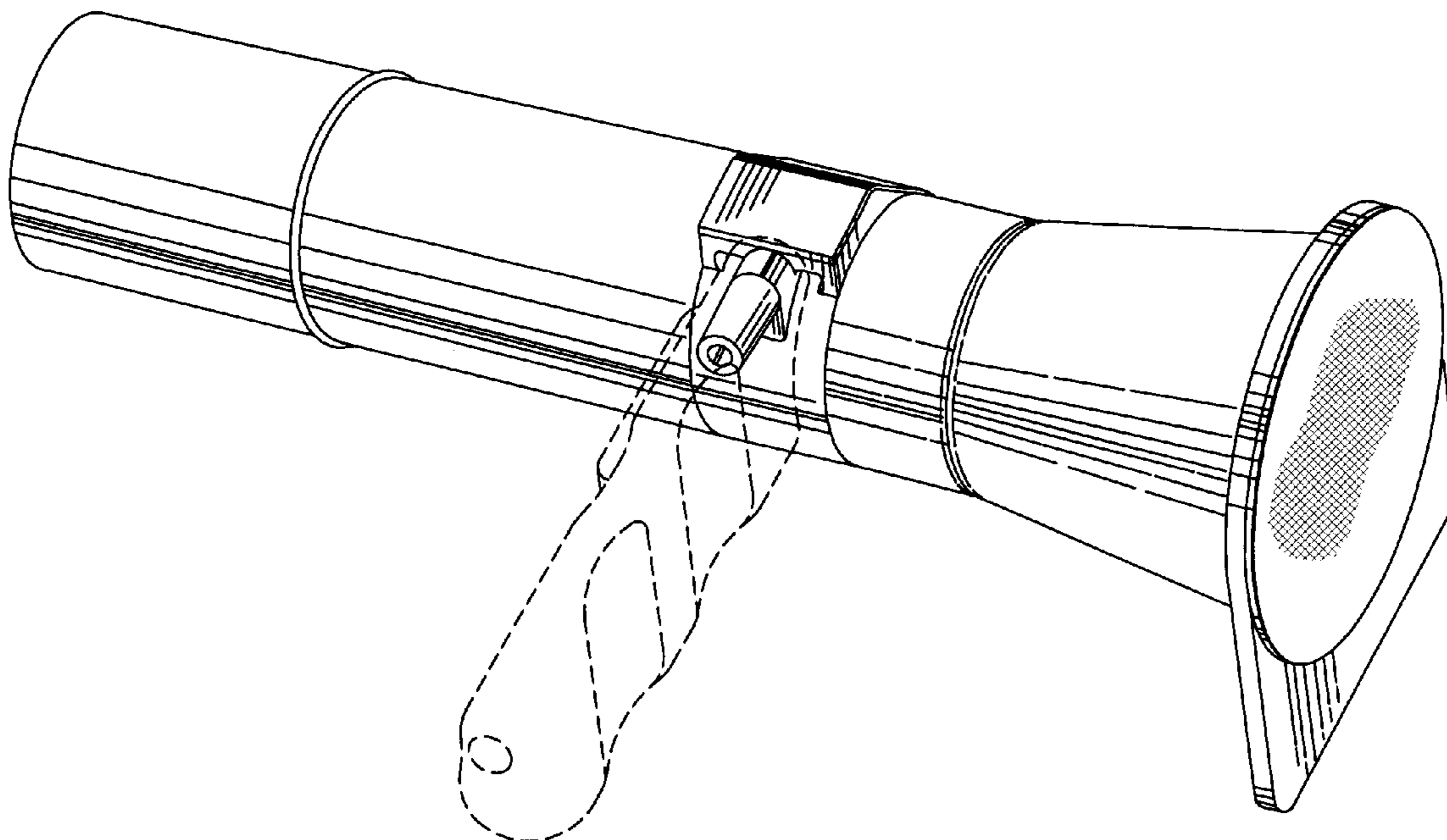
[57] **CLAIM**

The ornamental design for a single-use disposable spirometry sensor, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a single-use disposable spirometry sensor, showing our new design;
FIG. 2 is a side elevational view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is an end elevational view thereof;
FIG. 5 is an end elevational view thereof, opposite that shown in FIG. 4;
FIG. 6 is a side elevational view thereof, opposite that shown in FIG. 2; and,
FIG. 7 is a bottom plan view thereof.
The broken line showing of the handle in the views is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 2 Drawing Sheets



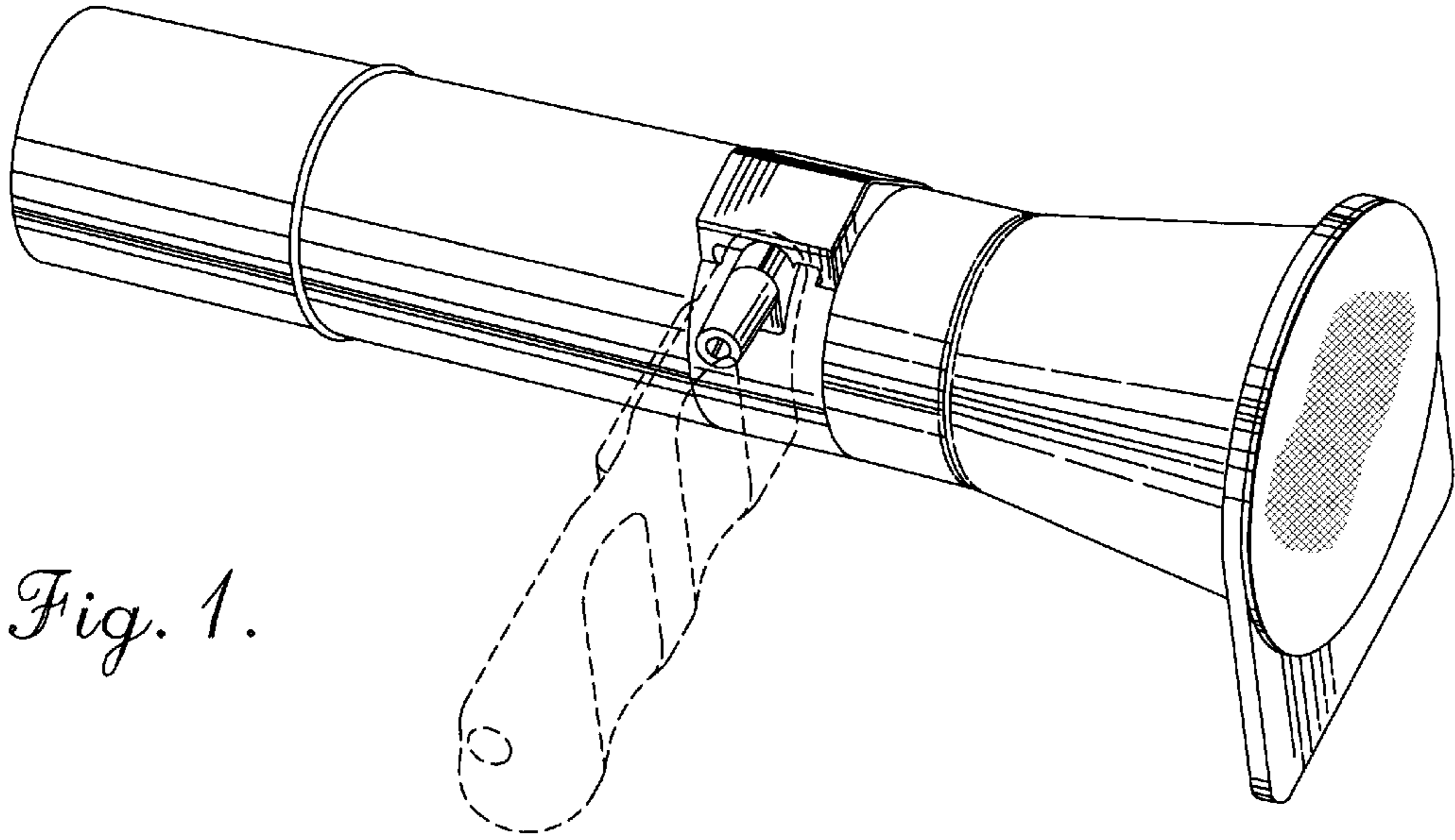


Fig. 1.

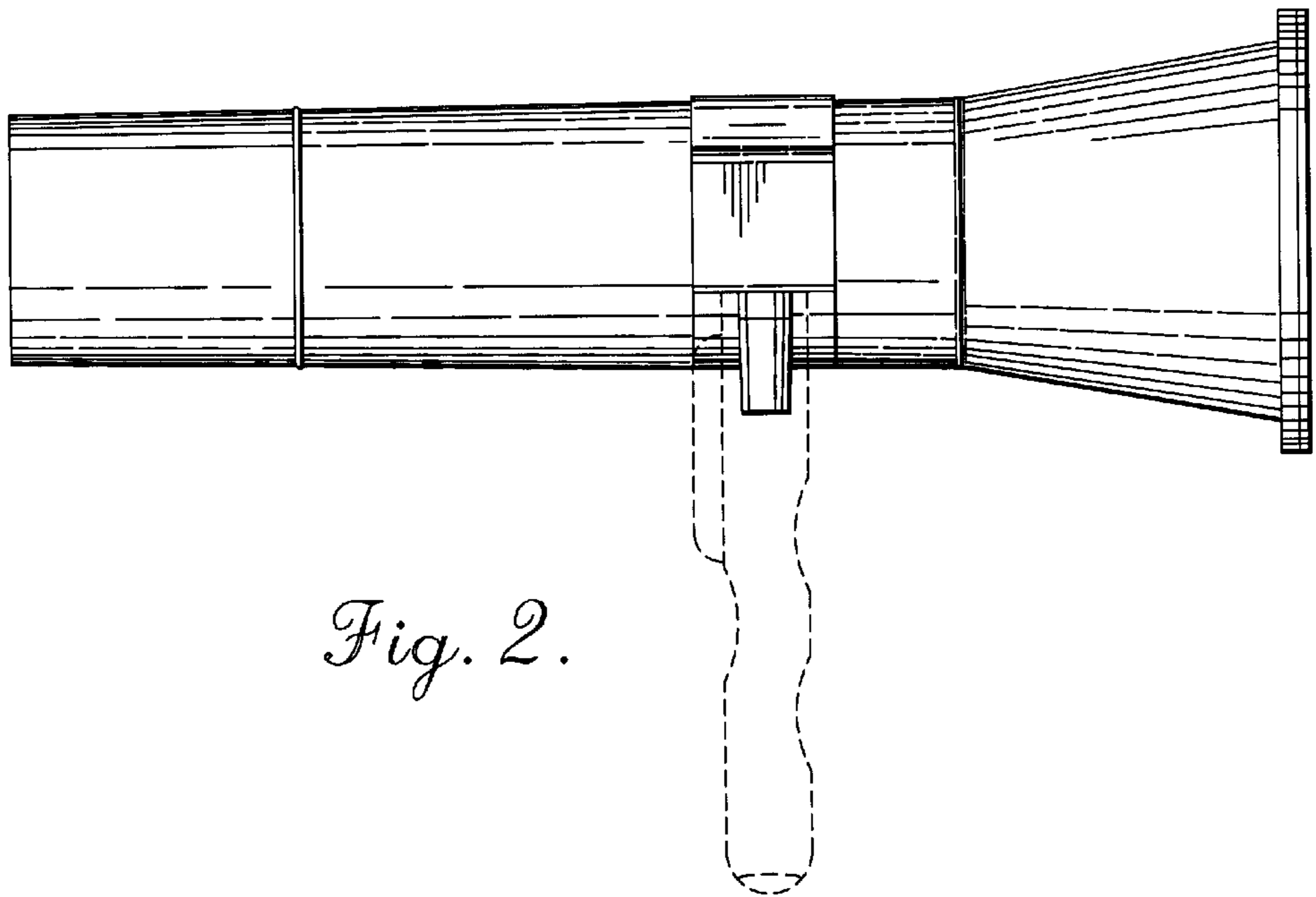


Fig. 2.

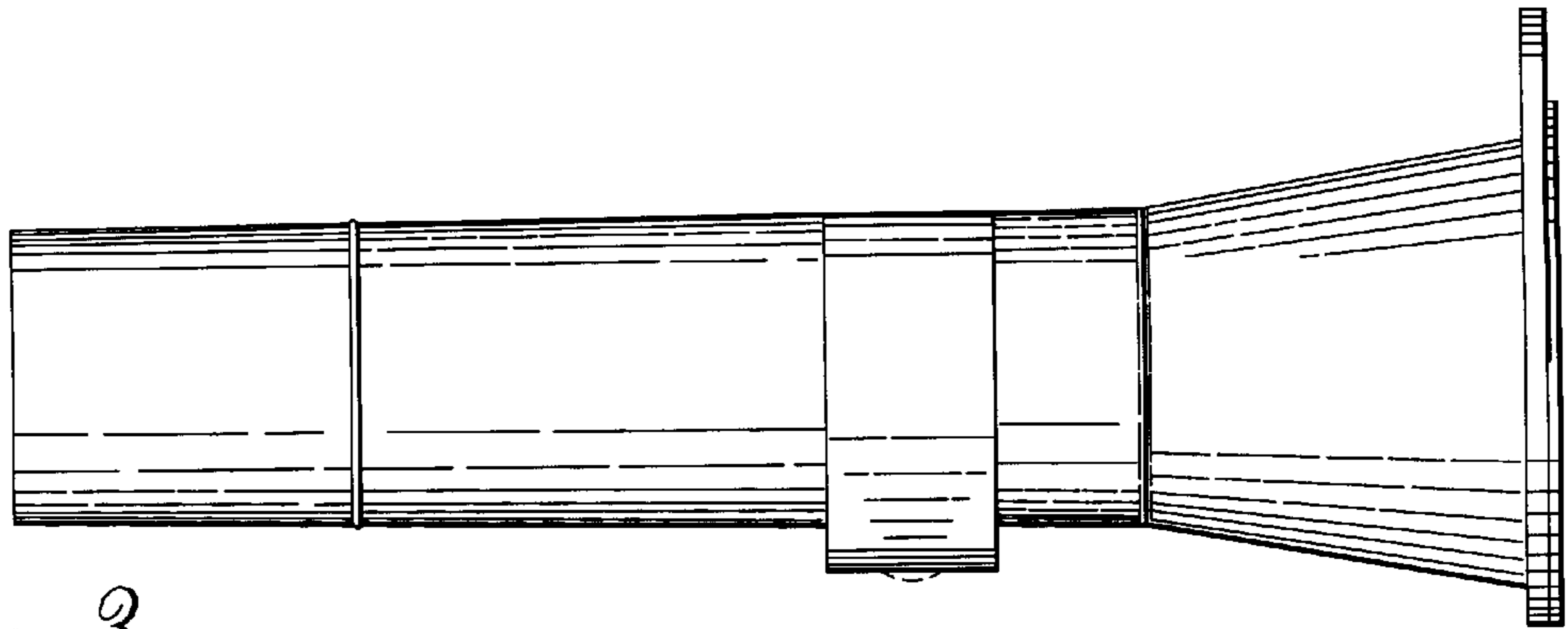


Fig. 3.

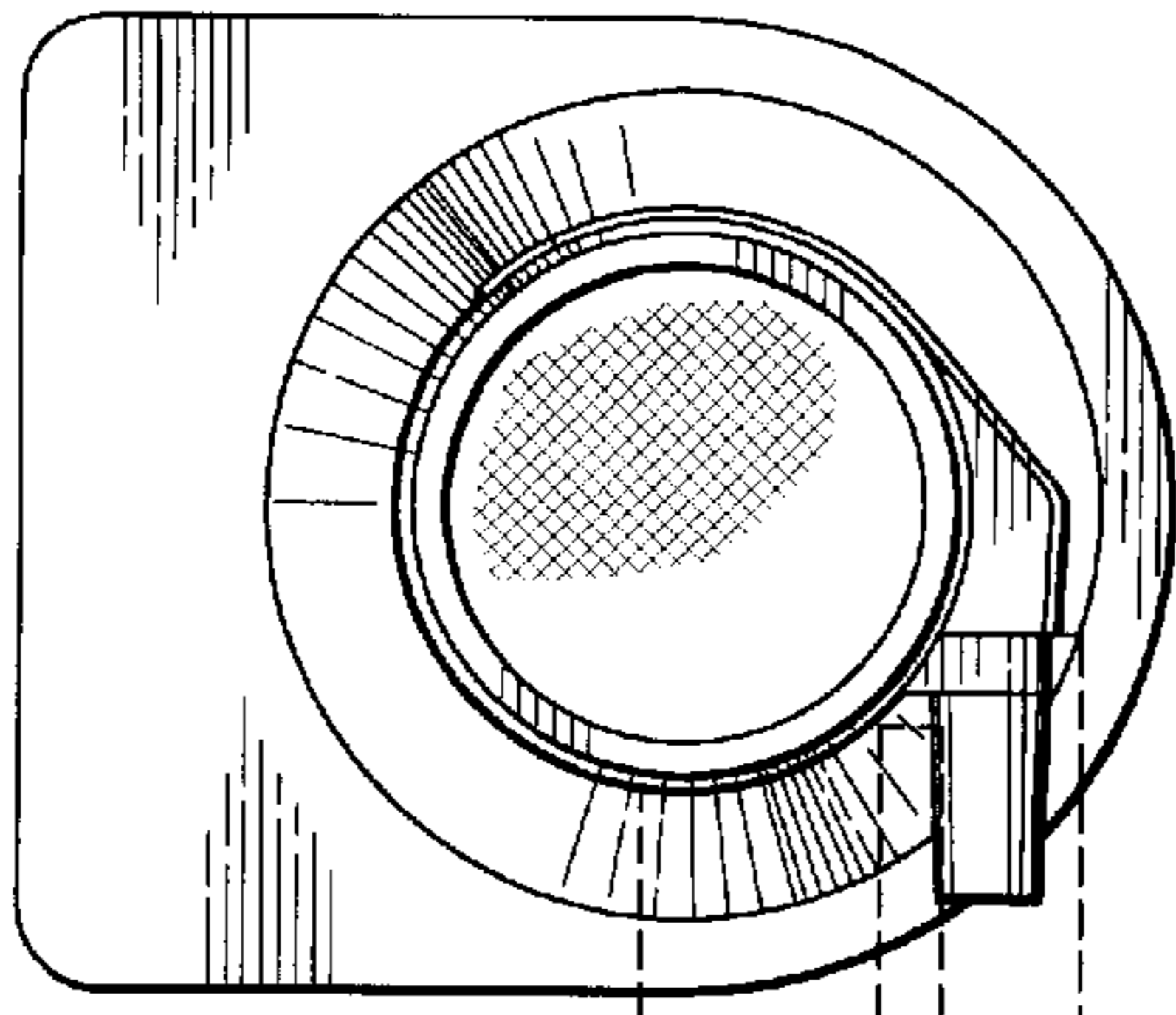


Fig. 4.

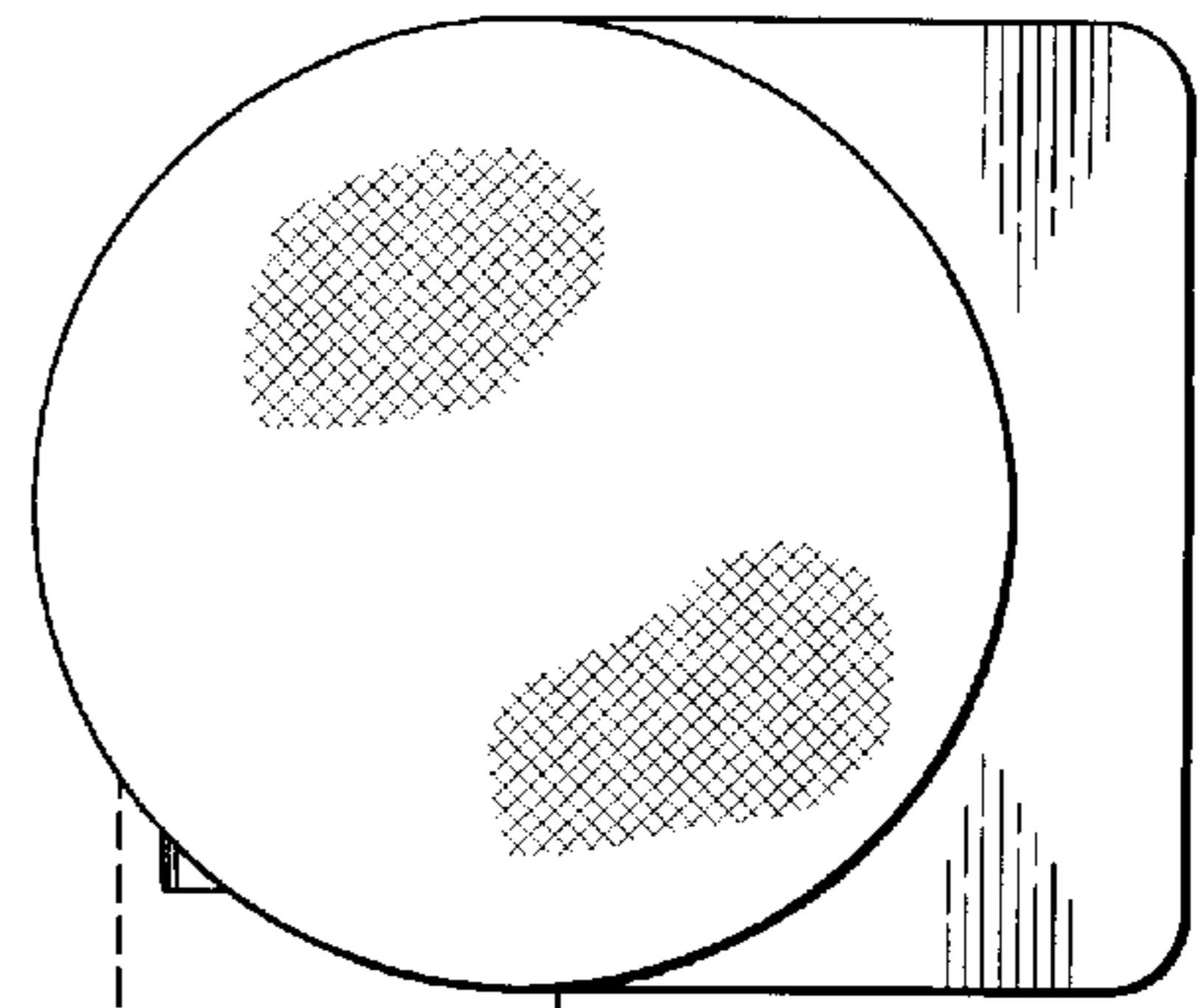


Fig. 5.

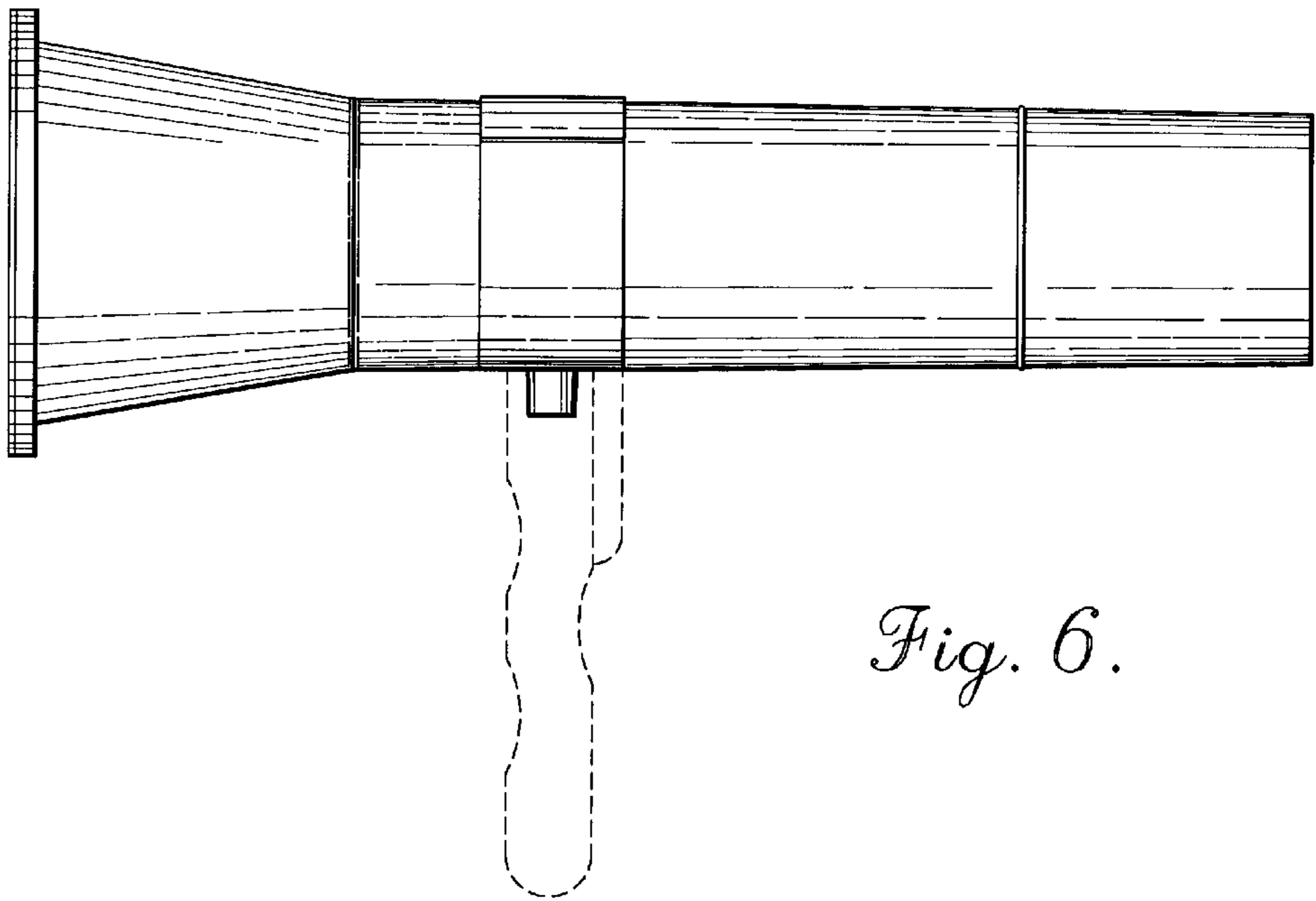


Fig. 6.

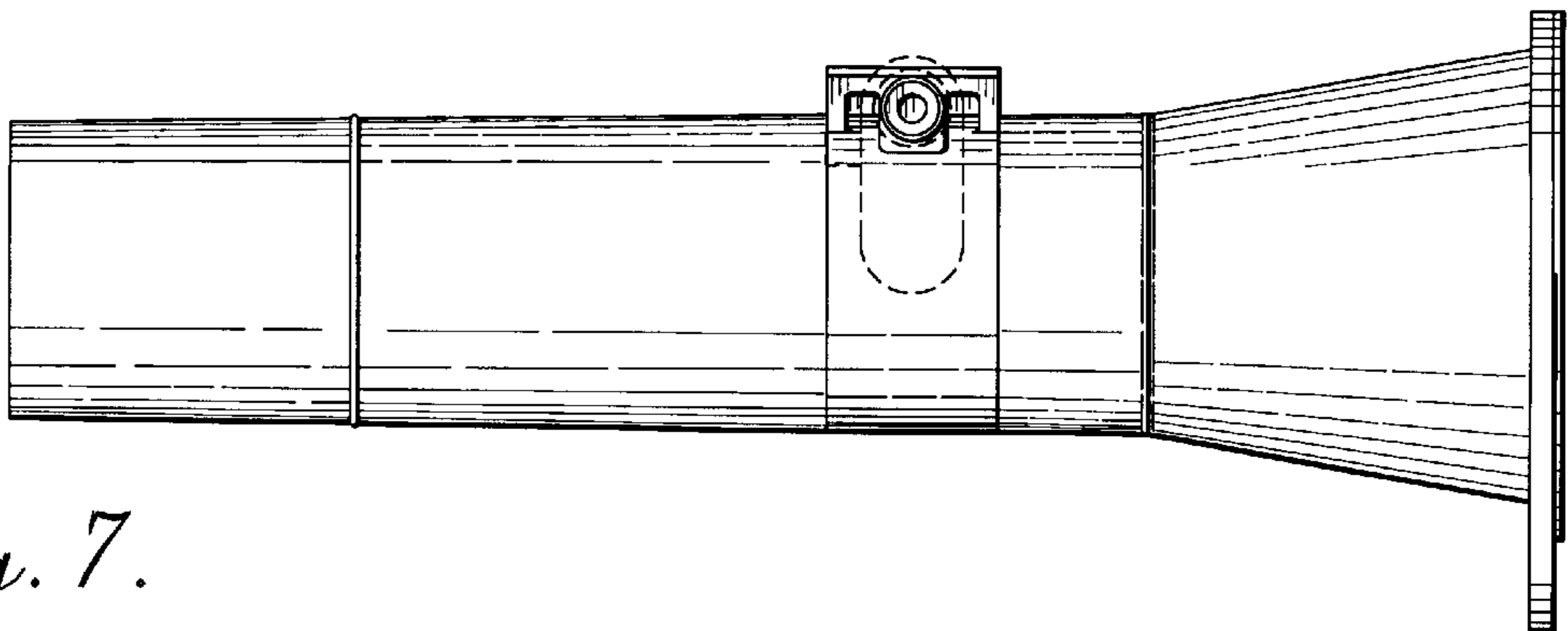


Fig. 7.