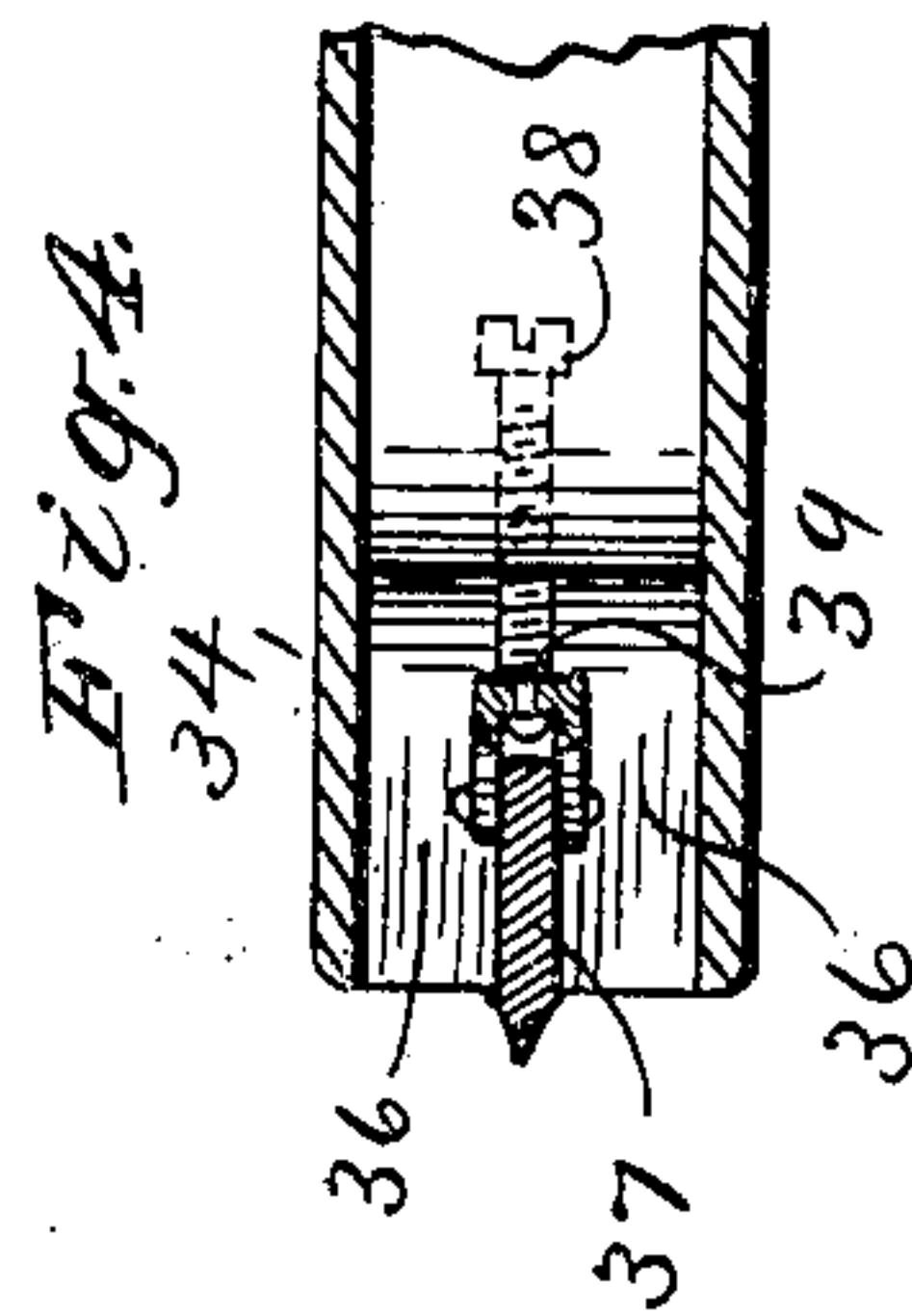
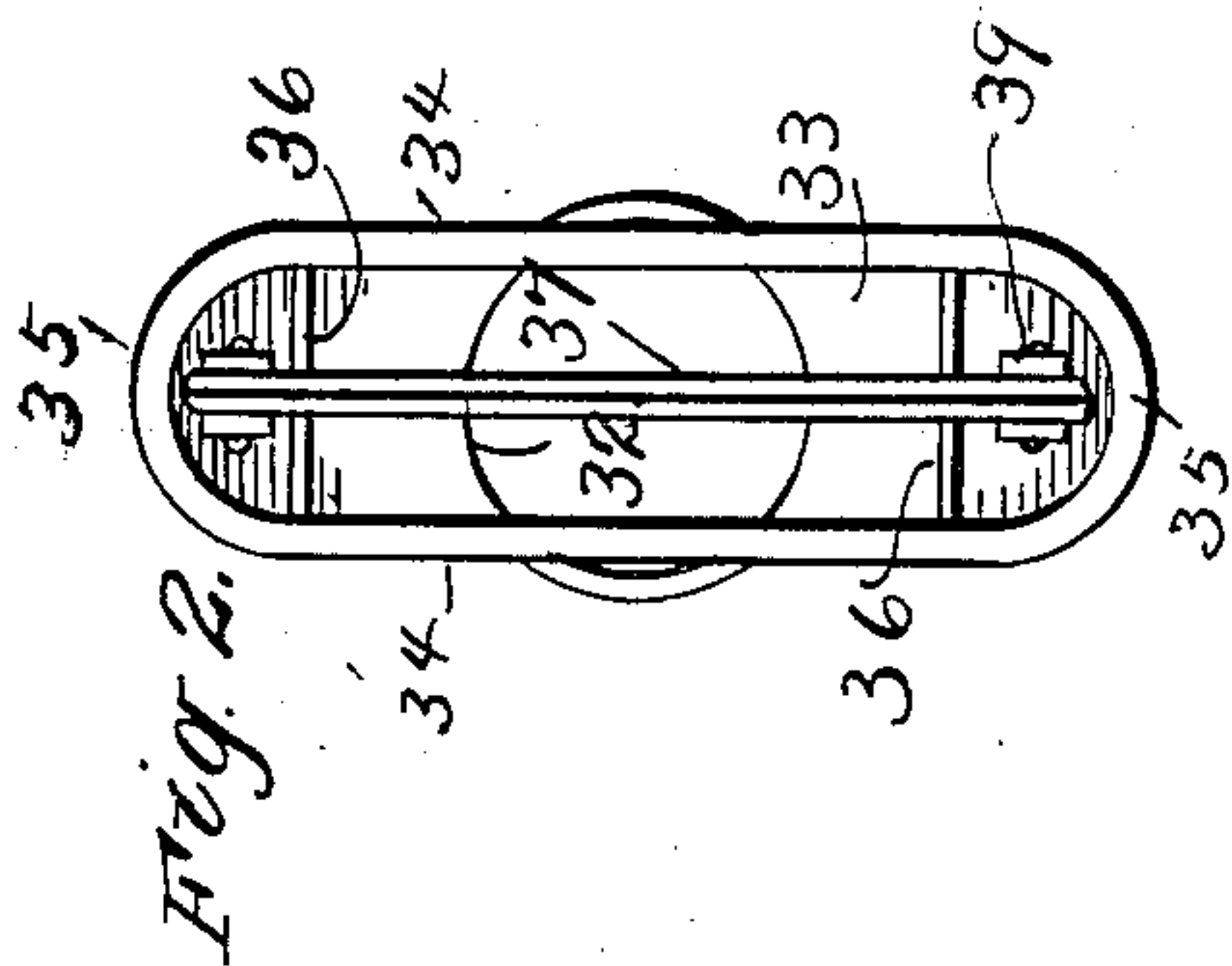
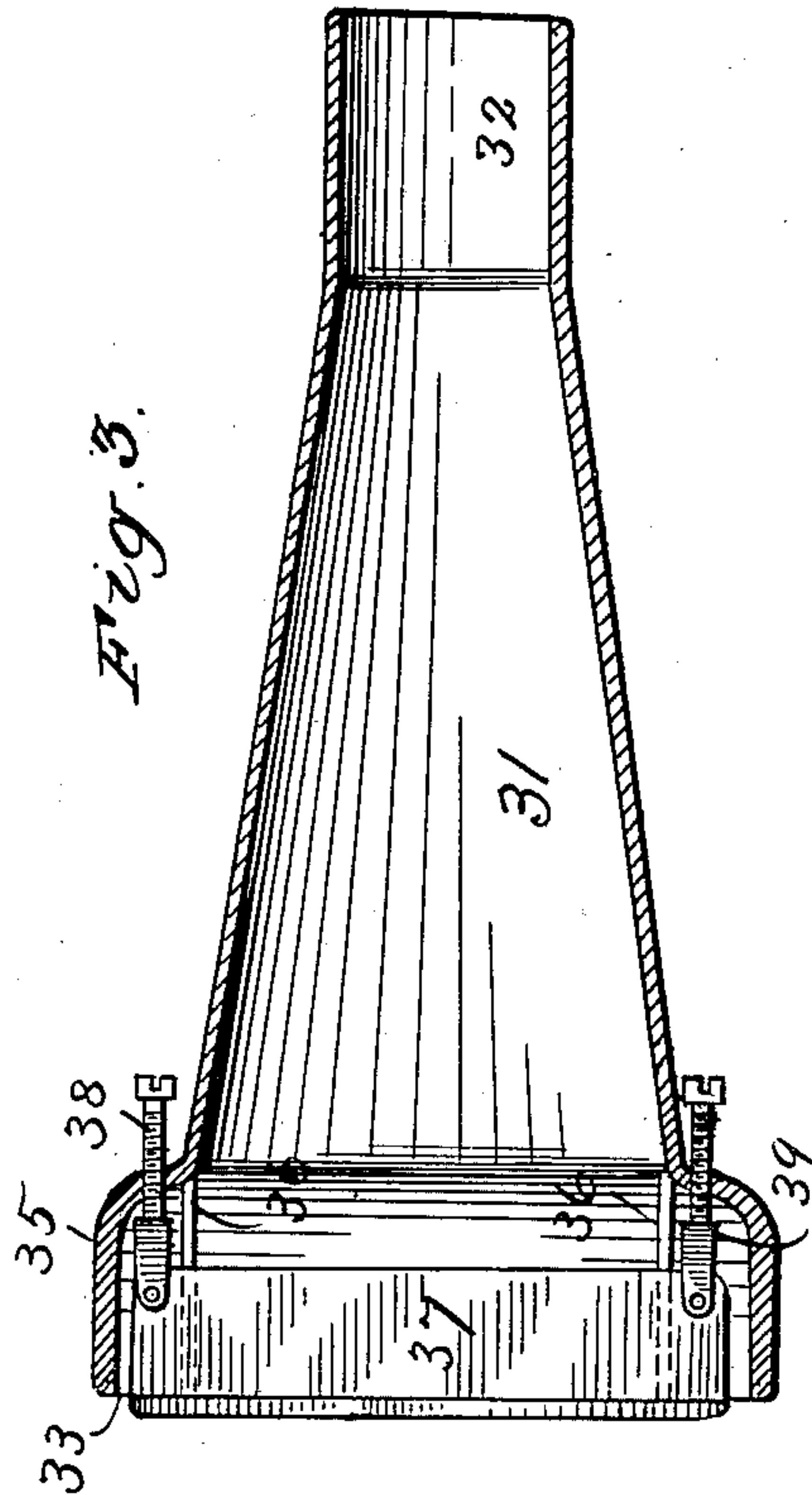
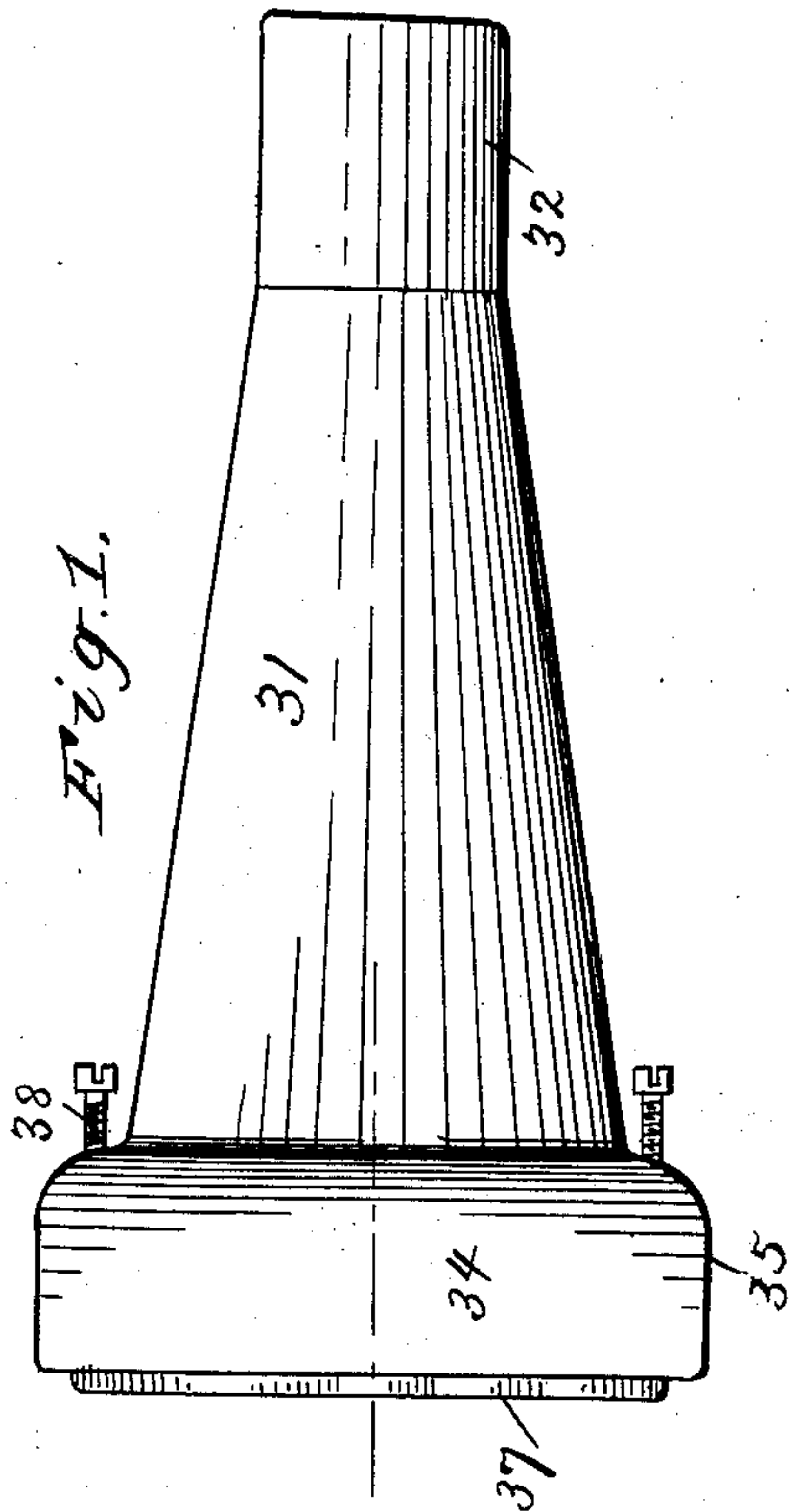


W. E. & J. H. WATSON.
 SUCTION NOZZLE.
 APPLICATION FILED JUNE 12, 1908.

917,819.

Patented Apr. 13, 1909.



Witnesses
 M. L. Skinner.
 H. F. McC. Day.

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UNITED STATES PATENT OFFICE.

WILLIAM E. WATSON AND JOSEPH H. WATSON, OF HINSDALE, NEW HAMPSHIRE.

SUCTION-NOZZLE.

No. 917,819.

Specification of Letters Patent.

Patented April 13, 1909.

Application filed June 12, 1908. Serial No. 438,173.

To all whom it may concern:

Be it known that we, WILLIAM E. WATSON and JOSEPH H. WATSON, citizens of the United States, residing at Hinsdale, in the county of Cheshire and State of New Hampshire, have invented certain new and useful Improvements in Suction-Nozzles, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to improvements in suction heads or nozzles for use in connection with vacuum or suction cleaning apparatus for removing dirt from carpets, furniture and the like.

15 The object of the invention is to provide a nozzle of this character which will effectively agitate the nap of the carpet or covering of the furniture so as to loosen and remove the dirt, and which may be readily adjusted to operate upon different kinds of carpets and coverings.

25 With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

30 Figure 1 is a plan view of the improved suction head or nozzle; Fig. 2 is an end view of the same; Fig. 3 is a longitudinal section and Fig. 4 is a detail longitudinal section through the outer end of the nozzle taken in a plane at right angles to the plane of Fig. 3.

35 The improved suction head or nozzle comprises a body 31 which tapers inwardly and has a reduced inner end 32 forming a connection for a hose or flexible tube (not illustrated) leading from the exhaustor or vacuum pump of a carpet cleaning apparatus or the like. The outer end of the body is enlarged and flattened to provide a mouth 33 having parallel side portions 34 united by

rounded end portions 35. Arranged within the mouth 33 are longitudinal guide ribs 36 between which slides an agitator plate or blade 37. The latter is adjustably mounted 45 so that its outer edge, which is beveled or V-shaped in cross section may be made to project to a greater or less extent beyond the edges of the sides and ends 34, 35 of the 50 mouth of the nozzle according to the character of the carpet, furniture covering or other surface over which the device is passed. When the carpet or covering has a long nap the blade 37 is adjusted outwardly a distance 55 sufficient to cause it to effectively scrape or agitate the nap and thereby loosen the dust so that the latter will be drawn into the nozzle or head by suction. The blade 37 is adjusted by means of two screws 38 arranged 60 in threaded openings formed in lateral offset portions of the ends 35 and having their inner ends swiveled in yokes 39 pivoted to the ends of the blade. The outer ends of said screws are provided with notched heads or 65 finger pieces by means of which they may be readily turned to adjust the blade.

Having thus described the invention what is claimed is:

A suction nozzle comprising a body having 70 an open end or mouth provided with guides, a blade slidable in said guides, and a pair of screws arranged in the opposite sides of the nozzle and having their inner ends swiveled to said blade and their outer ends provided 75 with operating heads.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

WILLIAM E. WATSON.
JOSEPH H. WATSON.

Witnesses:

JAMES O'BRIEN,
WILLIAM P. LYMAN.