

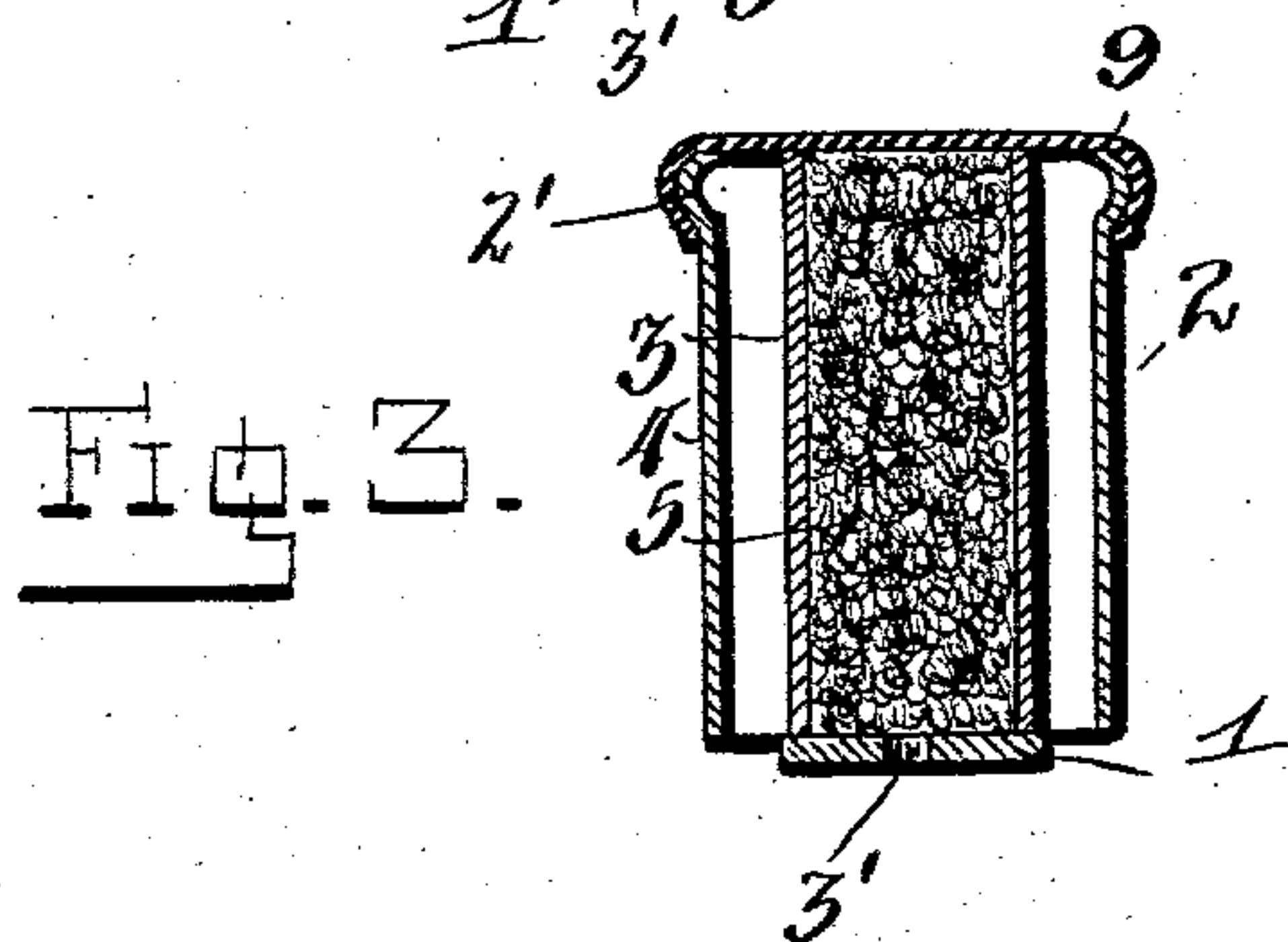
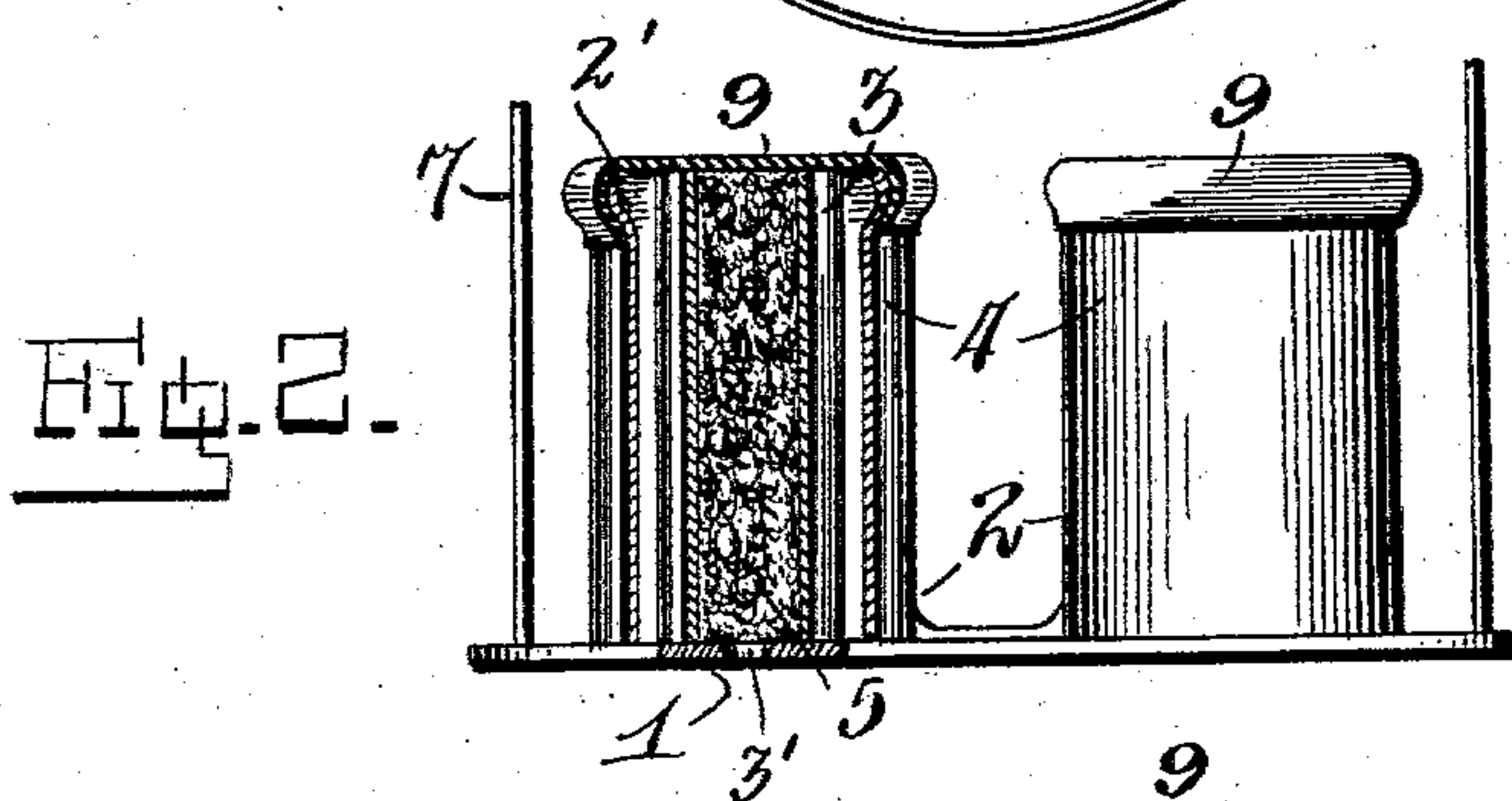
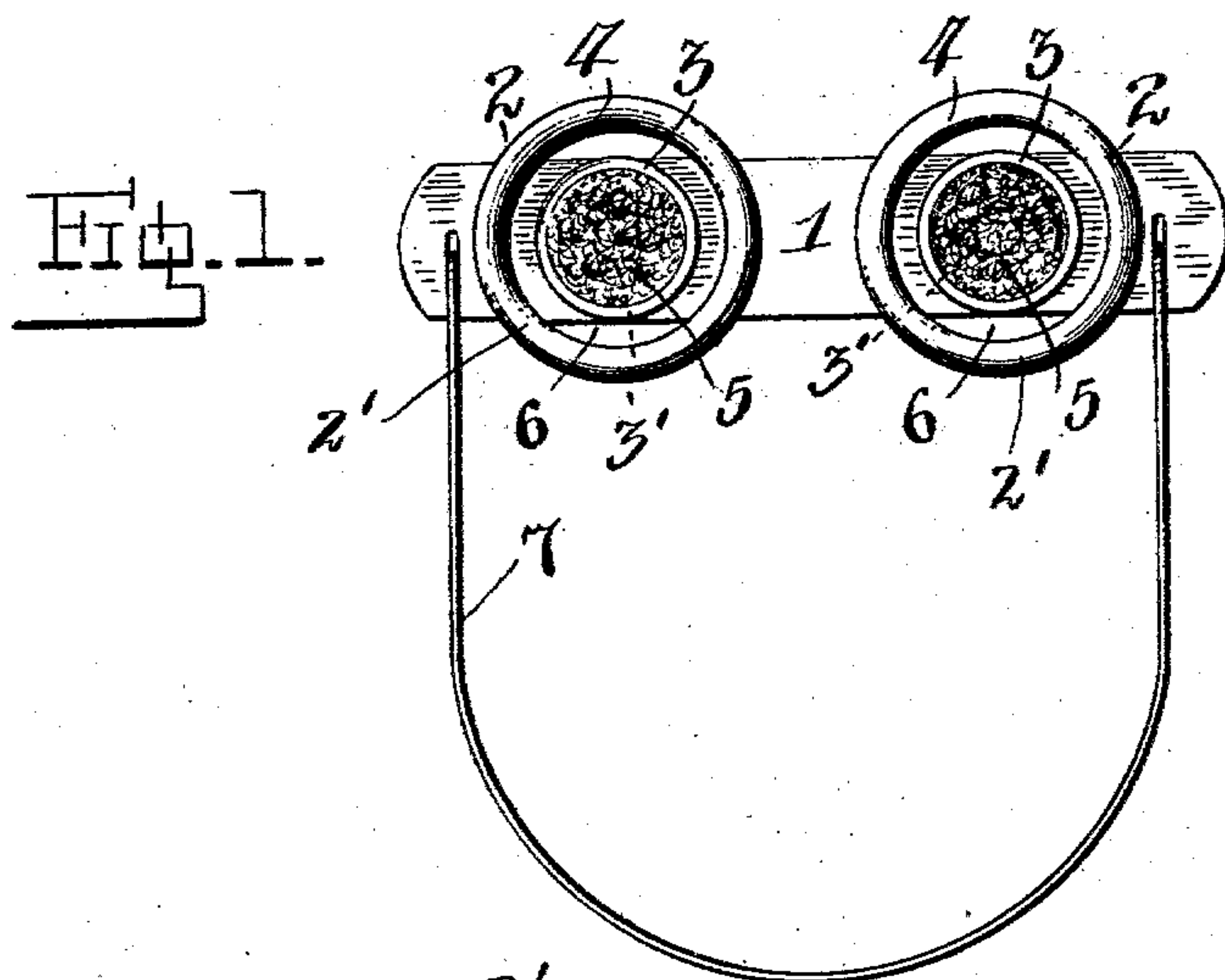
No. 753,133.

PATENTED FEB. 23, 1904.

C. T. GAMBLE.
INHALER.

APPLICATION FILED AUG. 6, 1903.

NO MODEL.



Witnesses

for Koehl.

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UNITED STATES PATENT OFFICE.

CYRUS T. GAMBLE, OF DIAMONDVILLE, WYOMING.

INHALER.

SPECIFICATION forming part of Letters Patent No. 753,133, dated February 23, 1904.

Application filed August 6, 1903. Serial No. 168,516. (No model.)

To all whom it may concern:

Be it known that I, CYRUS T. GAMBLE, a citizen of the United States, residing at Diamondville, in the county of Uinta and State of Wyoming, have invented certain new and useful Improvements in Inhalers or Respirators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to inhalers or respirators; and its object is to provide a simple and effective device of this character for treating catarrh and other nasal diseases.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is an inner end view of an inhaler embodying my invention. Fig. 2 is a top plan view of the same, one of the respirators appearing in section and showing the protecting cap or shield applied thereto; and Fig. 3 is a sectional view of a single form of inhaler.

In carrying my invention into practice I provide a base or bridge plate 1, which carries the respirating devices 2, one for each nostril, each of said devices consisting of inner and outer concentric tubes 3 and 4, fixed at one end to the said base or bridge plate, which forms a septum joining them in parallel relation. One end of the inner tube 3 is closed by the plate 1, except for a small air-inlet opening 3' formed in said plate, and the other end thereof is open for the insertion and removal of a wad or packing 5 of absorbent material, such as cotton or sponge, saturated or treated with a suitable drug or medicine. The outer tube 4 is of such greater diameter than the tube 3 as to provide an air-passage 6, through which the air in the action of respiration passes. The two respirators are designed to fit within the nostrils, and as the patient inspires the air entering through the openings 3' and passages 6 will take up and become impregnated with vapor from the medicament, so that the curative agent will be carried to the seat of the disease in the nostrils, throat, or air-passages of the lungs and act directly to cure or alleviate the trouble.

As shown in Figs. 1 and 2, a pair of respirators may be coupled by the plate 1 in par-

allel relation for insertion into both nostrils, and in such case an elastic band 7 may be attached to the ends of said plate for application to the head to hold the inhaler in place, or an inhaler consisting of a single respirator, as shown in Fig. 3, may be used and other means employed to retain the respirator or respirators in place. The provision of a rim or head 2' upon the tube 4 will in most cases be found sufficient for the purpose.

A cap or shield 9, of rubber or metal, may be applied to each respirator when the same is not in use to prevent waste by evaporation of the medicament and keep said medicament in a pure or uncontaminated condition.

It will be observed that my improved respirator or inhaler is simple of construction, efficient in use, inexpensive of production, and may be retained in the nostrils for use for any period of time without annoyance or discomfort to the user. By its use medicated air may be thrown directly on the diseased tissues and cure or relief quickly effected. The device may of course be made of any suitable material and of different sizes to adapt it for use by children, youths, and adults.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. An inhaler comprising a base-piece having an air-opening therein, an inner tube supported thereon in line with said opening and forming a medicament-chamber, an outer tube supported by the base-piece concentric with the medicament-tube and forming an intervening air-passage, and means upon the outer tube for engaging the wall of the nostril and retaining the inhaler therein, substantially as described.

2. An inhaler comprising a base-piece hav-

ing an air-opening therein, an inner medica-
ment-tube supported thereby in line with the
said opening, an outer tube supported by the
base-piece concentric with the inner tube, said
5 outer tube having an outspringing rim portion
at its free end to engage the wall of the nostril
and retain the inhaler therein, and a cap
adapted to fit over said rim portion and close
the free ends of both tubes, substantially as
10 described.

3. An inhaler comprising a base-piece, com-

panion respirators carried thereby, each res-
pirator comprising concentric tubes forming
a medicament-chamber and surrounding air-
passage, and means for supporting the device 15
from the head, substantially as described.

In testimony whereof I have hereunto set my
hand in presence of two subscribing witnesses.

CYRUS T. GAMBLE

Witnesses:

R. C. PETERMANN,

W. SCOFIELD.