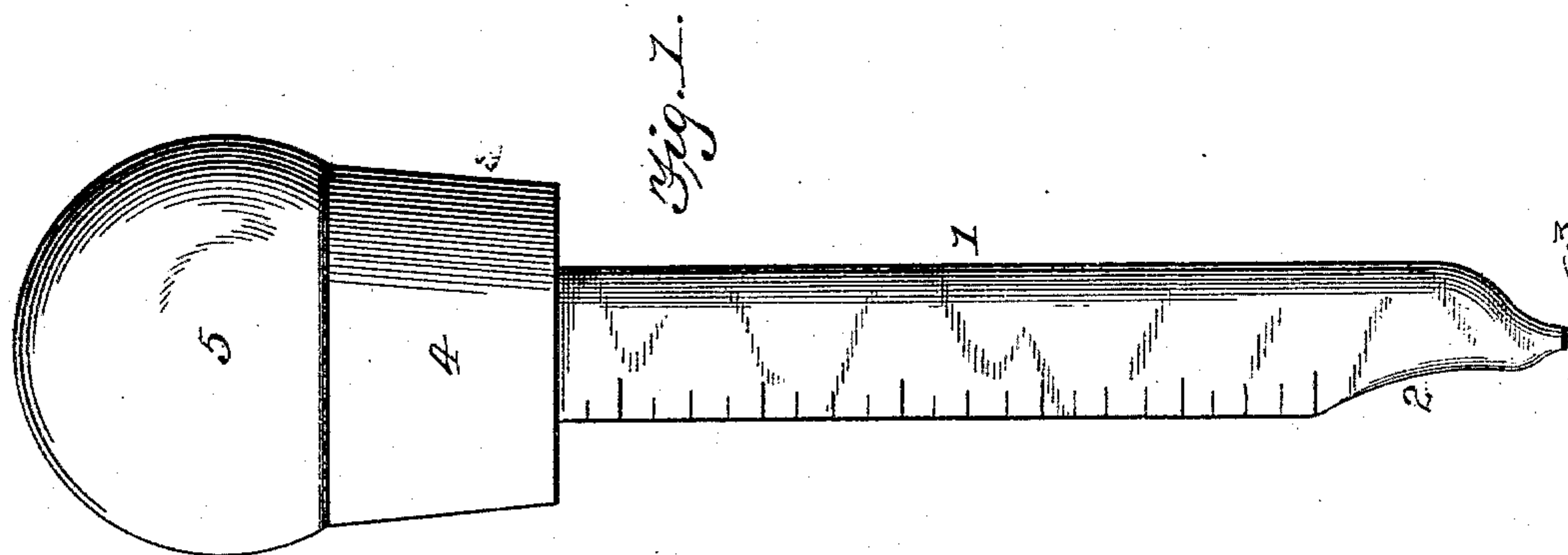
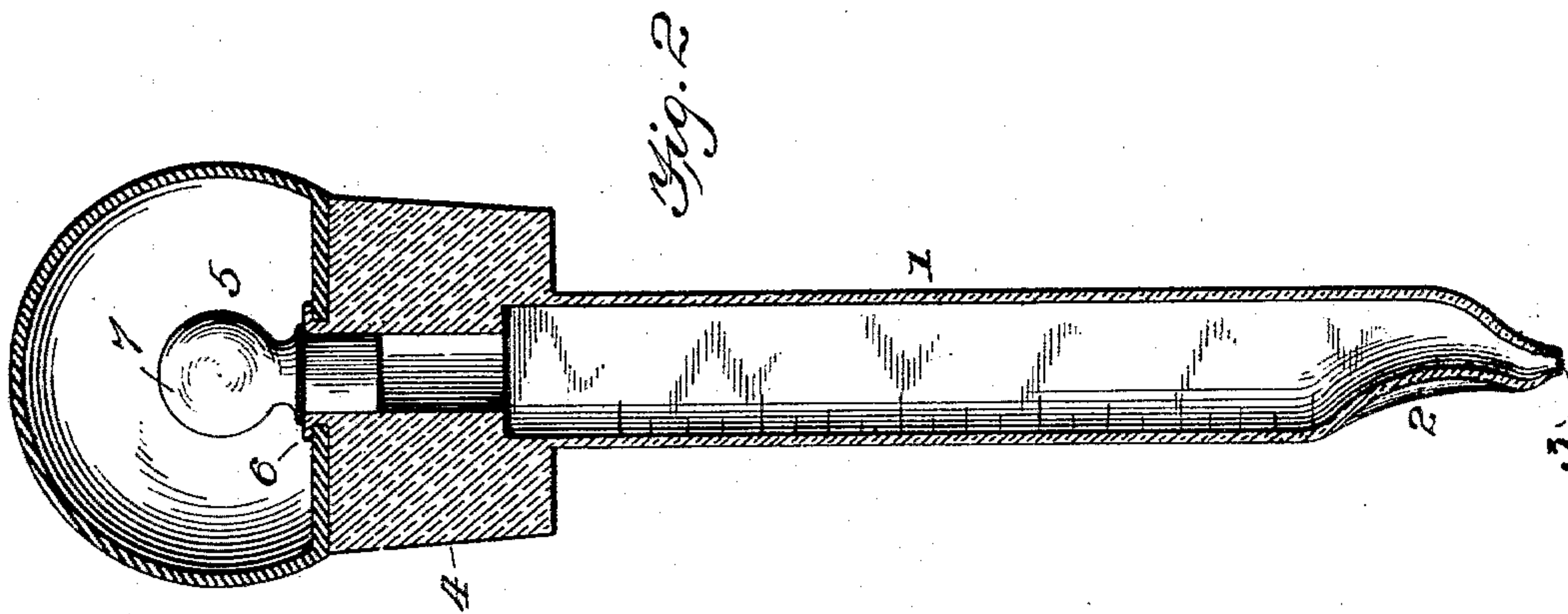
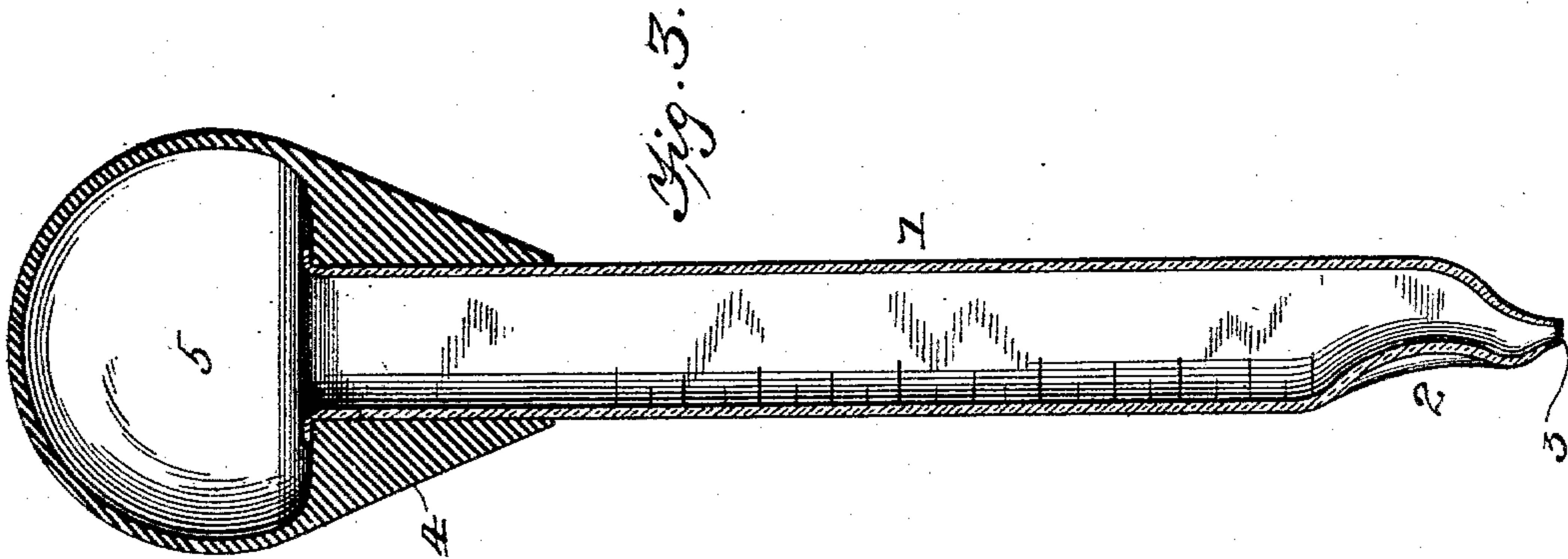


(No Model.)

L. E. WHEELER.
BOTTLE STOPPER.

No. 551,424.

Patented Dec. 17, 1895.



Inventor
Linn E. Wheeler.

Witnesses
E. H. Monroe
U. B. Hillyard.

By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

LINN EDSON WHEELER, OF NEW BRUNSWICK, NEW JERSEY.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 551,424, dated December 17, 1895.

August 10, 1895. Serial No. 558,912. (No model.)

To all whom it may concern:

Be it known that I, LINN EDSON WHEELER, a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and useful Combined Bottle-Stopper, Meas-
5 urer, Spoon, and Dropper, of which the follow-
ing is a specification.

This invention relates to a combined bottle-
10 stopper, measurer of liquid, medicine-spoon,
and dropper, and aims to provide a device
for the purposes aforesaid which will accu-
rately measure the required amount of liquid
and which can be used with fluids of any na-
15 ture and which will be simple and attain the
desired results in a successful and satisfac-
tory manner.

Other objects and advantages are contem-
plated and will become apparent as the na-
20 ture of the invention is understood from the
following description and the drawings here-
to attached, in which—

Figure 1 is a side elevation of the inven-
tion. Fig. 2 is a longitudinal section there-
25 of. Fig. 3 is a modification.

Like numerals of reference designate cor-
responding parts in all the figures of the draw-
ings.

The tube 1 is transparent or semi-transpar-
30 ent and is properly graduated to indicate any
required amount of medicine or liquid to be
dispensed and one end is tapered and other-
wise formed to approximate the shape of a
spoon, as shown at 2, and the extremity is
35 apertured, as shown at 3, for the ingress and
egress of the fluid. The opposite end of the
graduated tube is formed with a stopper 4
and is provided with a compressible bulb 5
which is detachably fitted thereto and which
40 is retained in place by being sprung into the
contracted portion formed between the stop-
per 4 and an outwardly-extending flange 6 at
the end of the said tube. That side of the
compressible bulb adjacent to the stopper 4
45 is flattened and fits thereagainst and is sup-
ported thereby, the said stopper forming a
backing for the inner flattened side of the
bulb. The stopper 4 may be an integral part
of the tube, in which instance it will be formed
50 of glass, or it may be a separate part and ap-
plied thereto in any convenient manner. For
fluids which have a tendency to disintegrate

or dissolve stoppers as usually provided it
is preferred to have the stopper 4 formed of
glass, as this substance is not affected by 55
fluids such as are stored in glass vessels. In
order to protect the compressible bulb 5 from
injury, the end of the graduated tube 1 will
be closed by means of a glass stopper 7, which
latter is fitted to and removed from the tube 60
1 after the bulb 5 has been detached.

Obviously when the device is used for clos-
ing a bottle containing a fluid or medicine
which will not affect the bulb the glass stop-
per 7 will be omitted, thereby obviating the 65
necessity of removing and replacing the bulb
when it is required to use the graduated tube
for measuring a desired quantity of the fluid
contents of a bottle.

The outer end of the graduated tube is re- 70
duced and the stopper 4 is fitted thereon,
thereby strengthening and reinforcing the
same, and a portion projects a short distance
beyond the ends of the stopper 4 to receive
the bulb 5 and is outwardly flanged to retain 75
the said bulb in position when its flattened
side is sprung over the flange 6. The stop-
per 4 will be provided in various sizes to
adapt the device for different-sized bottles
and the graduated tube will be provided in 80
different sizes according to the nature of the
requirement.

In some instances the stopper and bulb will
be integrally formed, and such a construc-
tion is shown in Fig. 3, in which the neck 85
portion of the bulb 5 is enlarged so as to form
the stopper 4, the latter being sprung over
the outer flanged end of the graduated tube 1.
The approximately spoon-shaped end 2 of the
graduated tube may have any desired form 90
approximating that of a spoon and may be
an integral part of the tube or may be formed
of metal and secured thereto in any conven-
ient manner, the metal end being provided
on such devices as are designed for adminis- 95
tering medicine to delirious persons, thereby
obviating injury by the breaking of the spoon-
shaped end should the patient clinch the teeth
upon the device while in the act of adminis-
tering the medicine.

The stopper will conform to the neck of the
bottle, and as intimated may be either an in-
tegral part of the compressible bulb or the
graduated tube and will vary in size accord- 100

ing to the form and size of the bottle to be closed thereby, and it is to be understood that in the embodiment of the invention various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new is—

10 1. The herein described combined bottle stopper, measurer, dropper, &c., comprising a graduated tube, provided at one end with an approximately spoon-shaped extremity which is apertured, and having a stopper, and
15 a compressible bulb at the opposite end, substantially as set forth, for the purpose described.

2. A combined bottle stopper, measurer, dropper, &c., comprising a graduated tube
20 having one end approximating the form of a spoon and apertured for the ingress and egress of liquid, and having a stopper at the opposite end which end projects a short distance beyond the stopper and is formed with
25 an outwardly extending flange, and a compressible bulb detachably fitted to the stoppered and flanged end of the graduated tube, substantially in the manner set forth, for the purpose described.

30 3. In a combined bottle stopper, measurer, dropper, &c., the combination with the grad-

uated tube having its upper end thickened to form a stopper and having a portion projecting a short distance beyond the stopper and outwardly flanged, of a compressible bulb
35 having a flattened side which is detachably fitted to the projecting end of the tube and which is supported and backed by the said stopper, substantially as shown, and set forth.

4. The herein shown and described combined bottle stopper, measurer, dropper, &c., comprising a graduated tube having one end approximating the form of a spoon and apertured, and having its opposite end reduced and reinforced by means of a stopper, and
45 having a portion projecting beyond the said stopper and outwardly flanged, a second stopper for closing the flanged end of the graduated tube, and a compressible bulb having a flattened side which is adapted to be detachably fitted to the projecting end of the graduated tube and which is supported and fitted
50 against the outer end of the stopper encircling the reduced extremity, substantially as set forth, for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LINN EDSON WHEELER.

Witnesses:

EMMA B. WHEELER,

M. D. MULLIGAN.