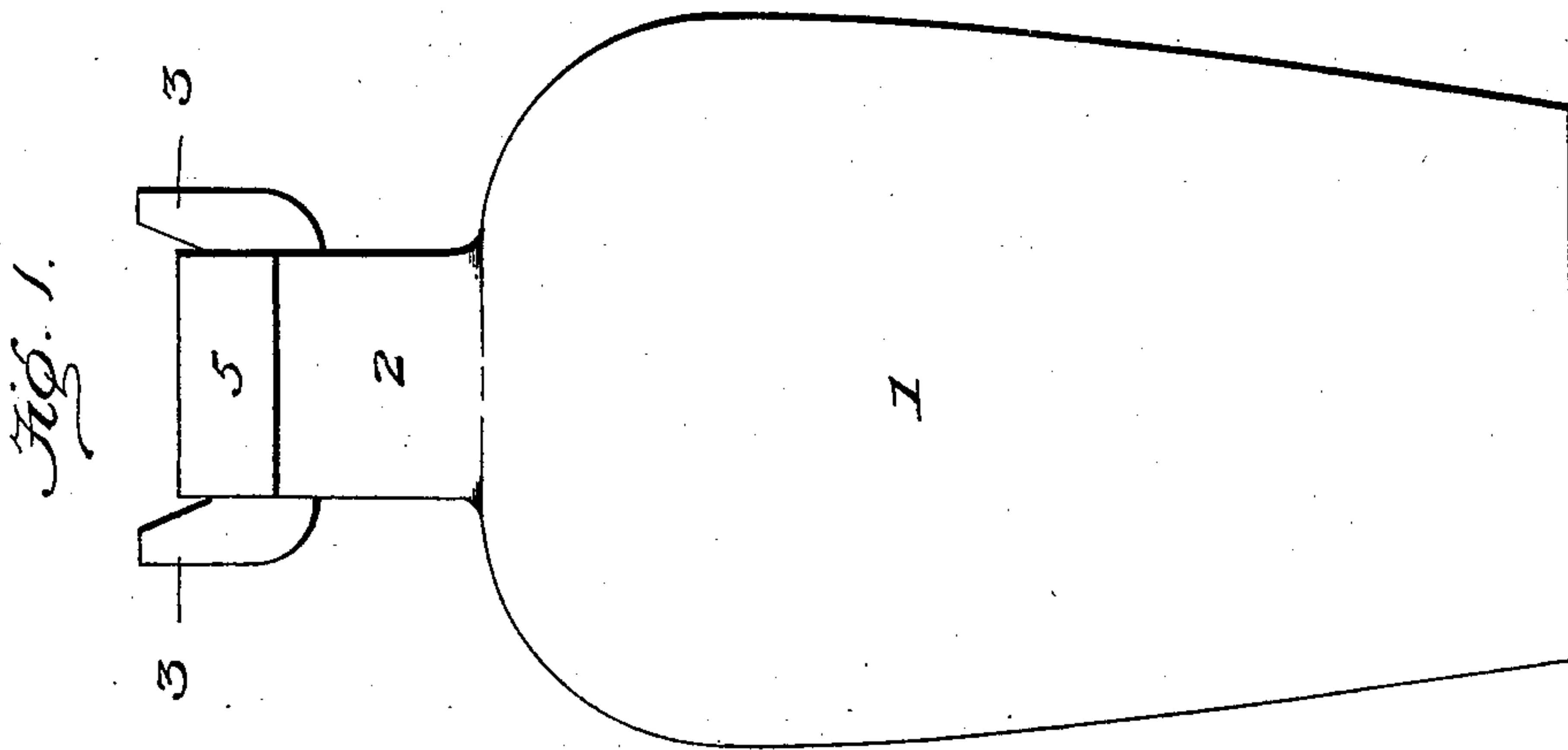
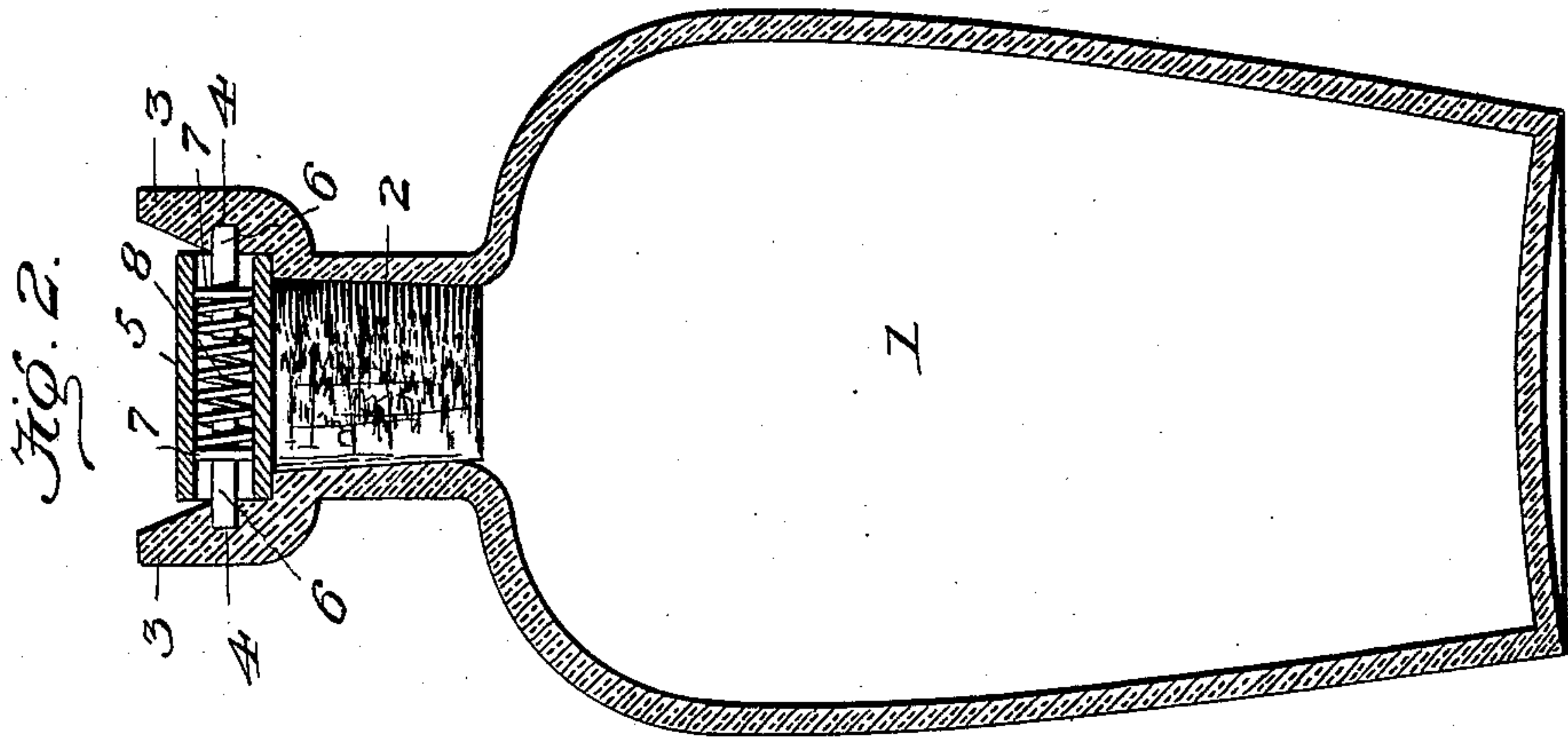


(No Model.)

W. P. BLISS.  
NON-REFILLABLE BOTTLE.

No. 588,947.

Patented Aug. 31, 1897.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM P. BLISS, OF AURORA SPRINGS, MISSOURI.

## NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 588,947, dated August 31, 1897.

Application filed March 10, 1897. Serial No. 626,815. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM P. BLISS, a citizen of the United States, residing at Aurora Springs, in the county of Miller and State of Missouri, have invented certain new and useful Improvements in Non-Refillable Bottles; 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.

My invention relates to a non-refillable bottle.

The object of the invention is to provide a bottle of this character which, after having been once filled and its contents removed, cannot be refilled and placed upon the market as an original package without detection.

With this object in view the invention consists of certain features of construction and combination of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved bottle, and Fig. 2 is a longitudinal vertical sectional view of the same.

In the drawings, 1 denotes the bottle, and 2 its neck. Formed integral with the neck of the bottle are two uprising ears 3, the inner or opposing faces of which are beveled outward for a distance of their length and immediately below the bevel with sockets 4.

5 denotes a tube of a length corresponding to the distance between the inner faces of the ears. Arranged within this tube are two studs 6, having intermediate their ends collars 7. Within the tube is a coiled spring 8, which is fitted around the inner ends of the studs, and has its ends bearing against the collars to force outwardly the studs. This tube may be made of glass or other frangible material, and so may also the ears of the bottle; or, if desired, the two may be made of metal.

After the bottle has been filled and sealed by the stopper 8 the tube is pressed downward between the ears and, owing to the inclined inner faces of the ears, the outer ends of the spring-actuated studs will be forced inward, but as soon as they come opposite the sockets in the ears the spring will force them outward and their outer ends into the sock-

ets. In this position with the tube across the mouth of the bottle it will be impossible to withdraw the stopper until either the tube or one of the ears has been broken, thus making it impossible for an evil-disposed person to refill the bottle and pass it in trade as an original package.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In combination with the neck of a bottle provided with ears projected upward beyond the mouth of the bottle, said ears having recesses or sockets in their inner faces, of a tube fitted between said ears, and spring-actuated studs arranged within said tube and projecting into the sockets or recesses, substantially as set forth.

2. The combination with the neck of a bottle provided with upwardly-projecting ears formed with sockets or recesses, of a tube fitted between said ears, studs arranged within said tube and provided with collars intermediate their length, a spring around the inner ends of said studs and abutting against the collars and adapted to force the outer end of said studs into the recesses or sockets, substantially as set forth.

3. The combination with the bottle-neck provided with upwardly-extending ears, the inner faces of which are inclined and are provided with sockets or recesses, of a tube fitted between said ears and provided with spring-actuated studs which are adapted to be forced into the recesses or sockets when the ends of the tube come opposite to them, substantially as set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

WILLIAM P. BLISS.

Witnesses:

A. A. REICHART,  
A. J. REICHART.