

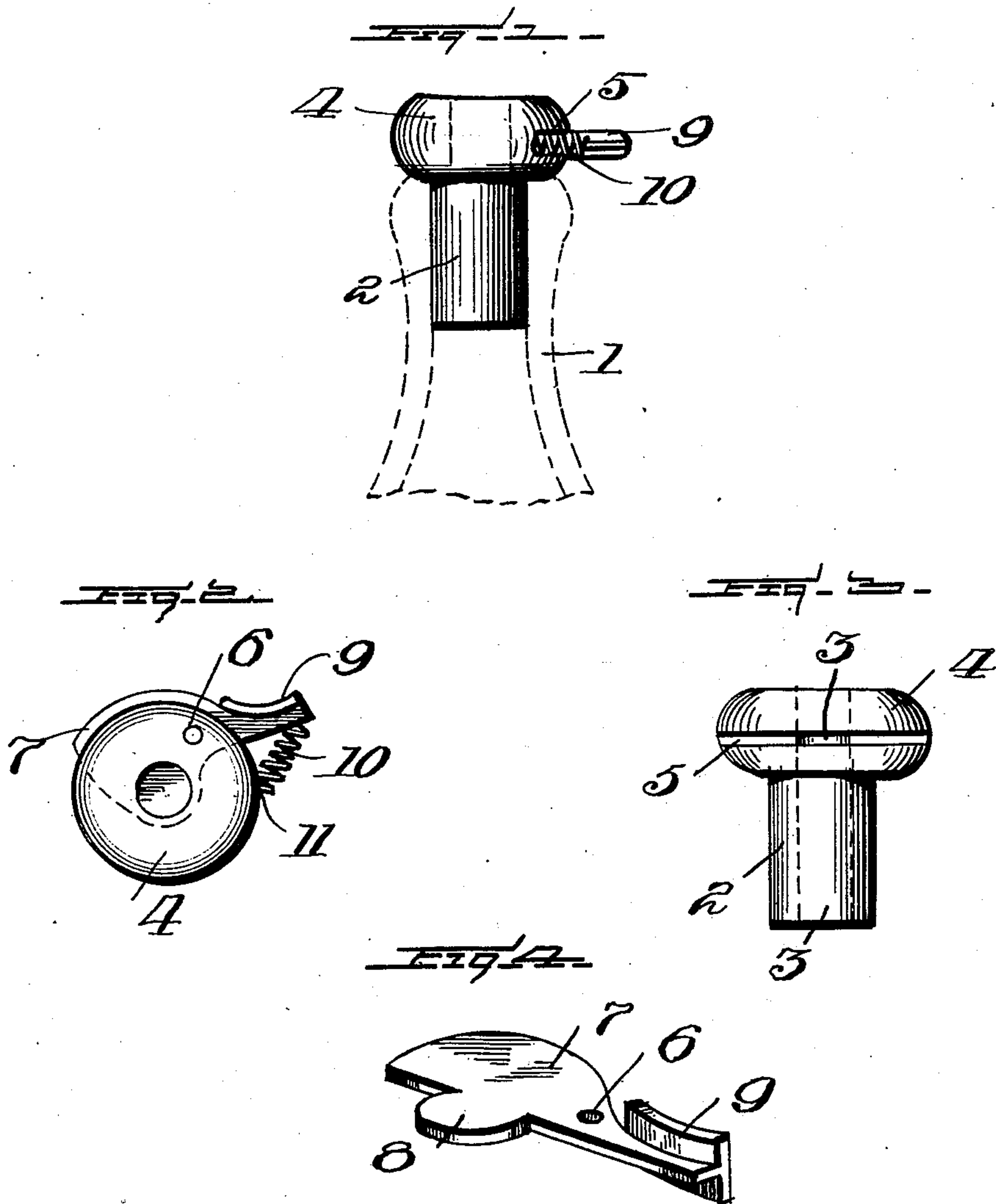
No. 711,767.

Patented Oct. 21, 1902.

G. HIRSHELL.  
BEER STOPPER.

(Application filed July 15, 1902.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

GEORGE HIRSHELL, OF PITTSBURG, PENNSYLVANIA.

## BEER-STOPPER.

SPECIFICATION forming part of Letters Patent No. 711,767, dated October 21, 1902.

Application filed July 15, 1902. Serial No. 115,647. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE HIRSHELL, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Beer-Stoppers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in bottle-stoppers, and relates more particularly to stoppers for beer-bottles and bottles for like malt liquors.

15 The object of the present invention is to provide a bottle with a stopper that will automatically close, forming a hermetical seal that will prevent the carbonic-acid gas from escaping, thereby preserving the liquor after the bottle has been once opened.

20 My invention further aims to provide a bottle-stopper that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

25 With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

35 Figure 1 is a side elevation of my improved stopper secured in the neck of a bottle, the latter being illustrated in dotted lines. Fig. 2 is a top plan view thereof. Fig. 3 is a front elevation of the stopper with the sealing-shutter removed therefrom. Fig. 4 is a perspective view of the sealing-shutter.

45 In the drawings the reference-numeral 1 indicates the neck of the bottle, in which is secured the cylindrical portion 2 of the stopper, having a central opening 3 formed therein, said cylindrical body portion carrying an enlarged head 4, through which the central opening 3 extends, this head 4 having formed

therein a slot 5, in which is pivotally secured 50 at 6 the sealing-shutter 7, which is adapted to snugly fit in the slot 5. The said sealing-shutter 7 carries a lip 8, which is adapted to fit over the central opening 3 of the stopper, this sealing-shutter also carrying thumb-piece 9, which is formed integral therewith, forming the operating-handle, to which is secured the spiral spring 10, and the other end of said spring is secured at 11 to the enlarged head 4 of the stopper. The spring 10 com- 60 presses the handle outwardly and the lip 8 inwardly, thereby retaining the bottle normally closed, and when it is desired to open the same the thumb-piece forming the handle is slightly depressed, permitting the fluid 65 to be taken from the bottle in the ordinary manner, and as soon as the thumb-piece or handle is released the bottle will again automatically close.

It will be noted that various changes may 70 be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters 75 Patent, is—

1. In a bottle, the combination of a head having a slot formed therein, a shutter pivotally secured in said head and operating in said slot, and a spring to normally retain said 80 shutter in a closed position, substantially as described.

2. In a bottle-stopper, the combination of a cylindrical body portion having a central opening therein extending into the neck of 85 the bottle, an enlarged head formed integral with said cylindrical body portion having formed therein a slot, a shutter pivotally secured in said slot, a handle extending from said shutter, and a spring to normally retain 90 said shutter over the opening formed in the stopper, substantially as described.

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

GEORGE HIRSHELL.

Witnesses:

JOHN NOLAND,  
E. E. POTTER.