O. M. WOLFF.

SPEAKING DEVICE.

APPLICATION FILED MAR. 1, 1921.

1,433,166. Patented Oct. 24, 1922.

Fig. 1.

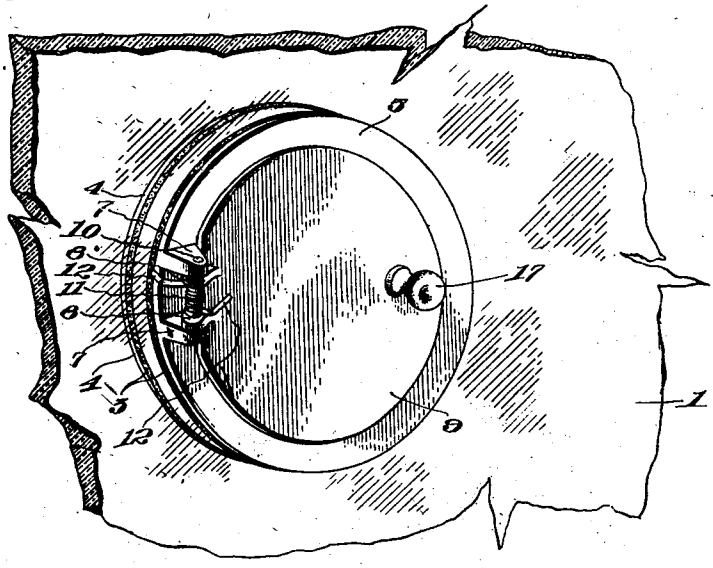


Fig. 2.

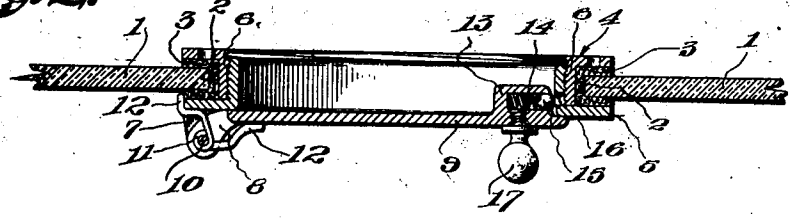


Fig. 3.

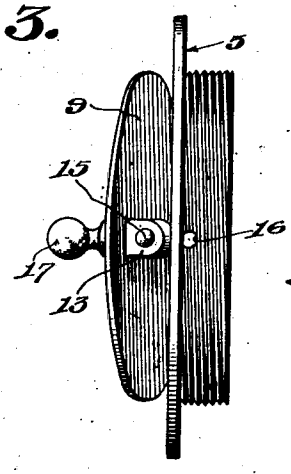
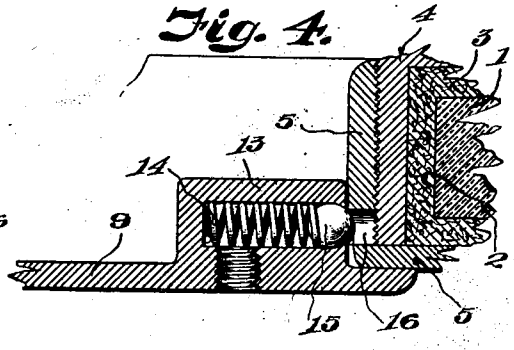


Fig. 4.



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UNITED STATES PATENT OFFICE.

OSCAR M. WOLFF, OF CHICAGO, ILLINOIS.

SPEAKING DEVICE.

Application filed March 1, 1921. Serial No. 448,775.

To all whom it may concern:

Be it known that I, OSCAR M. WOLFF, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Speaking Devices, of which the following is a specification.

This invention relates to a speaking device and has for its primary object to so design a device of this character that the occupant of an enclosed type of automobile can readily speak to the driver.

An object of the invention is to so construct the device that it may be readily connected to a glass plate and enable the voice to be readily passed through the plate, but when not in use will provide an air tight construction.

A feature of the invention is the novel manner of constructing and associating the parts so that the same may be readily clamped to the edge portion of the hole cut in the glass plate and provide a closure whereby the opening may be completely covered when the device is not in use.

Besides the above my invention is distinguished in the use of a spring operated closure that will at all times automatically move to closed position, in which position another yieldable device comes into play for assuring an absolute tight connection.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawing wherein:

Fig. 1 is a perspective view of the device.

Fig. 2 is a horizontal sectional view.

Fig. 3 is an edge elevation of the male member.

Fig. 4 is a detailed enlarged sectional view.

Again referring to the drawing illustrating a preferred form of my invention, numeral 1 designates a glass plate such as that arranged directly behind the driver of a closed automobile, and at this point I wish to call attention to the fact though I mention a glass plate, it is to be understood my device may be used with any structure, through which the voice of a person is to be passed. The plate 1 has formed therein a hole 2 and the purpose of my invention is to co-operate with this hole in such a manner that the same may be covered or uncovered. An edge portion of the hole is enclosed by a gasket 3 which may be constructed of felt or any other yieldable material, and numerals 5 and 4 designate male and female members illustrated as rings having a threaded connection 6 with each other, and thus it will be seen that the device may be quickly screwed in place.

One of the rings is provided with knuckles 7 that co-operate with the knuckles 8 on a closure 9. This closure when in closed position lies flat against the ring 5 thus completely covering the opening. A pintle 10 connects the knuckles together and has wrapped there around the coil spring 11, the ends 12 of which bear against the ring 5 and closure 9 thereby yieldably forcing at all times the closure to its closed position thereby relieving the user of the necessity of closing the closure. The closure 9 is formed with a barrel 13 the bore of which receives a second spring 14 that acts against the ball 15. The barrel is slightly crimped to hold the ball in proper position to allow a portion thereof to snap into the hole 16 in the ring 5. This construction assures the holding of the closure rigidly in a closed position To complete the invention I provide a knob 17 for operating the closure. It will be seen that I have devised an efficient closure for a hole in the plate and that it may be easily inserted by collapsing the gasket and forcing it around the perimeter of the hole in the glass, then inserting the outer ring in the gasket and afterwards screwing the inner ring having pivoted thereon the hole closure into the outer ring.

It is, of course, to be understood that the various parts of the device may be constructed in other manners and associated in other relations, therefore, I do not desire to be limited in any manner except as set forth in the claims hereunto appended.

Having thus described my invention what I claim is:

1. A glass plate having a circular hole therein, a gasket embracing the edge portions of the hole, a flanged ring fitting in the gasket, a second flanged ring inside the first, the rings having a secured connection with each other for clamping the ring flanges against both sides of said gasket, and a closure having a connection with one of the rings, whereby said parts may be readily assembled by collapsing the gasket and fitting it in the hole, then inserting the outer ring in the gasket and the inner ring in the outer ring.

2. A glass plate having a circular hole therein, a gasket embracing the edge portion of the hole, a pair of flanged rings having a screw thread connection with each other for clamping the ring flanges against said gasket, a closure having a hinge connection with one of the rings, a spring for forcing the closure to a closed position, and a yieldable element for holding the closure in closed position.

3. A plate having a hole therein and a closure for said hole comprising ring members, one detachably secured within the other, a closure hinged to one of the rings, a spring attached to the ring and engaging with the closure to hold it closed, a knob connected to the closure, a barrel on the closure, a spring arranged within one end of the barrel, and a ball projecting through the other end of the barrel to engage the other ring to yieldably hold the closure closed.

In testimony whereof I affix my signature.

OSCAR M. WOLFF.