

O. M. KELSO.  
POISON BOTTLE.  
APPLICATION FILED APR. 21, 1911.

1,008,647.

Patented Nov. 14, 1911.

Fig. 1.

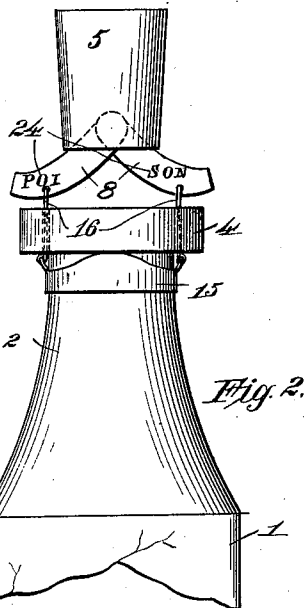
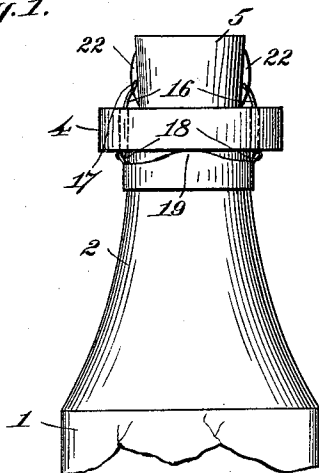


Fig. 3.

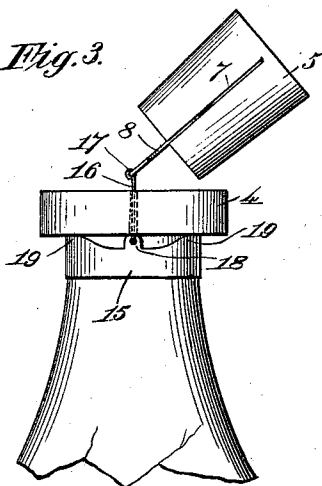


Fig. 5.

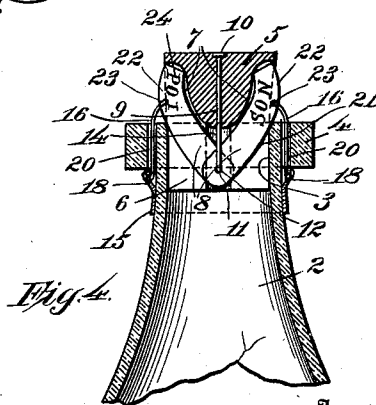
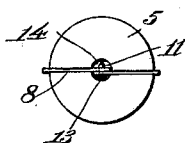


Fig. 4.

Witnesses

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# UNITED STATES PATENT OFFICE.

OLIVER M. KELSO, OF NEW ENGLAND, NORTH DAKOTA.

## POISON-BOTTLE.

1,008,647.

Specification of Letters Patent.

Patented Nov. 14, 1911.

Application filed April 21, 1911. Serial No. 622,449.

*To all whom it may concern:*

Be it known that I, OLIVER M. KELSO, a citizen of the United States, residing at New England, county of Hettinger, and State of North Dakota, have invented certain new and useful Improvements in Poison-Bottles, of which the following is a specification.

My invention relates to bottles and particularly to bottles adapted to contain poison, corrosives or other dangerous substances.

The object of my invention is to provide a bottle of the class mentioned equipped with means for warning the user or dispenser of the dangerous nature of the contents of the bottle upon removing the stopper.

A further object of my invention is to provide a bottle equipped with means whereby the bottle cannot be readily placed to the mouth after having removed the stopper without warning the party and giving them further opportunity to ascertain the nature of the contents of the bottle, to the end that a poisonous or dangerous substance cannot be taken from the bottle in the dark by accident or mistake.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in providing a bottle and a stopper for the same and equipping the stopper with arms which are expanded or projected when the stopper is removed from the bottle.

My invention further consists in a bottle and stopper having an arm or arms as mentioned and in suitable means connecting the arm or arms with the bottle whereby upon withdrawal of the stopper from the bottle the arm or arms will be projected from the stopper and the stopper will be held adjacent the mouth of the bottle in such a manner that upon attempting to place the bottle to the lips the stopper will drop into position to interpose itself between the mouth of the bottle and the lips.

My invention further consists in various details of construction and arrangements of parts all as will be fully described hereinafter and particularly pointed out in the claims.

My invention will be more readily under-

stood by reference to the accompanying drawings forming a part of this specification and in which—

Figure 1 is a side elevation of the upper portion of a bottle embodying my invention in its preferred form, the stopper being illustrated within the mouth of the bottle, Fig. 2 is a similar view illustrating the stopper withdrawn from the bottle and the arm projected, Fig. 3 is a similar view taken at substantially right angles to the position illustrated in Fig. 2, Fig. 4 is a vertical transverse section through the upper portion of the bottle and the stopper, and Fig. 5 is a bottom plan view of the stopper illustrating the arm in folded or retracted position.

Referring now to the drawings 1 indicates a bottle, which may be of any ordinary or preferred form, 2 the neck, 3 the mouth thereof and 4 the peripheral rim or flange at the mouth of the bottle.

5 indicates the stopper which may be of any suitable material but preferably resilient for a purpose which will appear hereinafter.

The stopper is provided with a substantially U-shaped kerf or recess which extends transversely across the lower or inner end of the stopper as at 6 and continued up the opposite side as at 7. Pivotaly connected to the stopper and adapted to fold within the recess are a pair of arms 8—8. The arms may be pivotaly connected to the stopper in various ways, but in the drawings I have illustrated the two arms pivotaly mounted upon the end of a pin or rod 9 extending axially through the stopper as shown clearly in Fig. 4. This construction affords ready means for assembling the device. The arms are first pivotaly secured to one end of the rod 9 and the opposite end inserted upwardly through the center of the stopper and the extreme end upset forming a head 10. To pivotaly connect the arm to the inner or lower end of the rod 9 said end may be bent at right angles as at 11, (see Fig. 5), and inserted through small perforations 12 in the ends of the arms and then riveted as at 13. It will be noted that the recess is provided at the center with an enlarged portion 14 to receive the rod 9 and the pivotal

connection between the same and the arms. The arms are preferably formed of thin sheet material and are so mounted as to fold edgewise into the recess provided for them in the stopper. The recess is quite narrow, being but sufficiently wide to readily receive the arm, and the stopper is formed of resilient material as hereinbefore stated. By this construction, when the stopper is forced into the mouth of the bottle, the walls of the recess will be compressed tightly against the faces of the arms, thereby preventing leakage of the contents of the bottle through the recess.

Encircling the neck of the bottle below the flange 4 is a band or ring 15 and this is connected by suitable links or members 16 to the arms 8 whereby withdrawal of the stopper from the bottle will project or extend the arms from the stopper. The stopper when removed being pivoted at 17 will swing downwardly. The connecting means 16 should preferably be of such a length as to allow the lower edge of the stopper to rest on the top of the peripheral flange 4. The stopper is thereby limited in its downward movement. The signal arms 8 swinging with the stopper will thereby be thrown at an angle, with the inscription bearing face directly before the eyes when below the level thereof. A flexible or pivotal connection 17 is provided between the members 16 and the arms 8 in order that the stopper may be turned back out of the way when pouring from the bottle and also so that the stopper will be held in such position that it will drop in front of the mouth of the bottle should the person attempt to place the bottle to the lips, thus serving as a warning in the dark that the bottle contains poisonous or dangerous substance. The ring 15 is preferably provided with a pair of integral ears 18 to which one end of each of the members 16 is connected respectively and with portions 19 adapted to abut the under face of the rim or flange 4 to space the ears or lugs 18 therefrom.

20—20 indicate vertically disposed apertures or perforations in the flange 4 to receive the members 16.

The arms 8 are curved as shown in Figs. 2 and 4 forming a curved outer edge 21 which acts as a cam face to assist in folding the arms within the recess as the stopper is placed in the mouth of the bottle, and also to form slightly projecting portions 22 which are perforated as at 23 to afford means for attaching the upper ends of the members 16. By this construction also, the outer ends of the arms are in substantial alinement when the stopper is withdrawn, which ends are provided, if desired, with an inscription 24 indicative of the nature of the contents of the bottle.

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

1. A bottle and a stopper provided with a recess, in combination with an arm pivotally connected to said stopper and adapted to fold within said recess, and means connecting said arm and said bottle whereby said arm is swung outwardly from said stopper as the latter is removed from the bottle.

2. A bottle, a stopper provided with a recess in the side thereof, an arm pivotally mounted on said stopper and adapted to fold within said recess when the stopper is inserted within the bottle, said stopper being formed of resilient material to fit snugly about said arm when the stopper is forced within the mouth of the bottle and means for swinging said arm outwardly as the stopper is withdrawn from the bottle.

3. A bottle and a stopper provided with a narrow recess, in combination with an arm pivotally connected to said stopper, said arm being formed of sheet material and adapted to fold edgewise into said recess, and means for swinging said arm outwardly as the stopper is withdrawn from the bottle.

4. A bottle and a stopper, said stopper being provided with a recess in the side thereof, in combination with an arm having one end pivotally secured within the lower portion of said recess, the outer edge of said arm being convexly curved forming a cam edge and means for swinging said arm outwardly as the stopper is withdrawn from the bottle, substantially as described.

5. A bottle having the usual neck and a peripheral flange about the mouth thereof, a stopper, a pair of arms pivotally connected to said stopper and adapted to swing outwardly in opposite directions, a collar arranged about the neck of said bottle, members connecting said collar and said arms, said flange being apertured to receive said members and a flexible connection between said arms and said members, substantially as described.

6. A bottle, a stopper provided with a substantially U-shaped recess extending across the bottom and up opposite sides thereof, a rod extending longitudinally through said stopper, a pair of arms each having one end pivotally connected to the lower end of said rod within said recess and means connecting said arms and said bottle whereby withdrawal of the stopper from said bottle will cause said arms to swing outwardly, substantially as described.

7. A bottle having the usual neck and peripheral flange about the mouth thereof, a stopper, a pair of signal arms pivotally connected to said stopper and adapted to swing outwardly in opposite directions

thereof as said stopper is withdrawn from the bottle, said arms being of sheet material and presenting flat normally vertical side faces, an inscription on said faces, a  
5 flexible connection between said bottle neck and said arms adapted to project said arms as said stopper is withdrawn and of such a length as to cause the stopper to rest on said flange at the limit of its outward swing,

thereby presenting the flat inscription bearing faces at an upward inclination. 10

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OLIVER M. KELSO.

Witnesses:

J. A. MEYER,

CHARLES SIMON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."