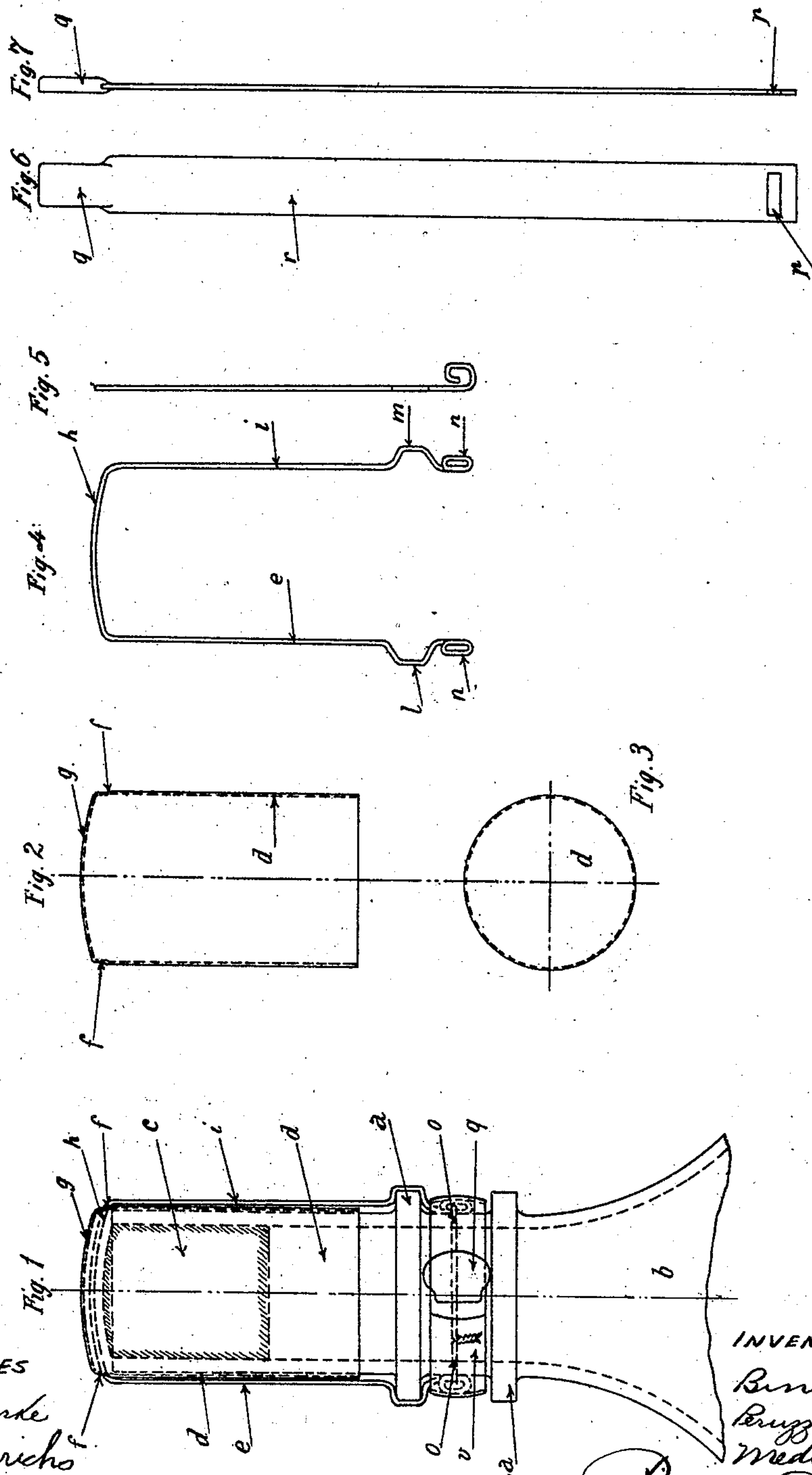


No. 842,179.

PATENTED JAN. 29, 1907.

B. P. DE MEDICI.  
CLOSING DEVICE FOR RECEPTACLES WITH CAPSULE AND WIRE.  
APPLICATION FILED AUG. 16, 1906.



WITNESSES

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# UNITED STATES PATENT OFFICE.

BINDO PERUZZI DE MEDICI, OF FLORENCE, ITALY.

## CLOSING DEVICE FOR RECEPTACLES WITH CAPSULE AND WIRE.

No. 842,179.

Specification of Letters Patent.

Patented Jan. 29, 1907.

Application filed August 15, 1906. Serial No. 330,750.

*To all whom it may concern:*

Be it known that I, BINDO PERUZZI DE MEDICI, a subject of the King of Italy, residing at Florence, Italy, have invented new and useful Improvements in Closing Devices for Receptacles with Capsules and Wire, of which the following is a specification.

The object of the present invention is to prevent the removal of the capsule from a bottle, flask, or jar or any other receptacle without breaking the capsule itself. This object has been attained in the manner to be hereinafter described, and shown in the accompanying drawings, in which—

Figure 1 represents the complete closing device applied to an ordinary bottle. Fig. 2 is an elevation of the capsule. Fig. 3 shows a plan thereof. Fig. 4 is a front view of the metallic-wire loop. Fig. 5 is a side view thereof. Fig. 6 is a front view of the strip for preventing access to the holding-wire, and Fig. 7 is a side view thereof.

The receptacle to which the device is applied may be of any form, material, and size desired. It may be a flask, a bottle, a jar, &c., in earthenware, glass, metal, &c. It is only requisite that it should possess a neck which is capable of being closed by an ordinary cork and that this neck should have in any suitable position two collars or enlargements which may be of semicircular, square, rectangular, or other suitable section. After the receptacle has been filled with the liquid which it is desired to place on sale with a guarantee of its authenticity it is closed by means of any kind of cork *c*. The head and upper part of the neck of this receptacle is closed by the capsule *d*, (shown a part view in elevation and in plan in Figs. 2 and 3,) which may be of celluloid, tin-foil, parchmentized paper, parchment, linen, &c., and on which may be printed marks of the authenticity of the liquid in the receptacle. This capsule is provided with a metallic wire *e h i*, (shown in part front and side elevation in Figs. 4 and 5,) bent in U form. Through the two holes *f f* this wire is threaded through the capsule, so that the central part *h* thereof is situated therein and lies above the bottom *g* of same, while the side arms *e* and *i* remain outside and adhere to the capsule. These side arms of the metal wire are then bent at *l m* in an arc form, so that they follow the contour of the upper collar *a* of the bottle and terminate in two loops *n n*, which are brought against the part of the receptacle

which exists between the two enlargements or collars *a* and *a'*. Between these two enlargements or collars a second metallic wire *o* is caused to pass, which interlaces same and is arranged in the form of a horizontal circle surrounding the whole of the neck of the receptacle, while it is held in contact with that part of the neck of the receptacle existing between the two collars *a* and *a'*. The circle is fastened off in the manner ordinarily adopted for securing metallic wire.

Such an arrangement of closing device insures that the capsule will remain in position; but it would only be necessary to cut the wire *o* in order to be able to remove it and replace same in such position. It is therefore necessary to secure this circle. This object is attained by means of a strip of lead or other metal or other suitable and flexible material having the form shown in front and side elevation in Figs. 6 and 7—that is to say, the form of a strip or band *r*, the length of which is based on that of the circumference of the neck of the receptacle, and having a slot *p* and a tailpiece *q*. This tail is of a thickness slightly greater than that of the other part of the band. Its length is such that when said band is employed for surrounding the neck of the receptacle between the collars *a a'* by passing the tail *q* through the slot *p* said strip will be in the form of a ring which will remain somewhat stretched. So that it may no longer be possible to remove this band from its position, the tail *q* is compressed outside the slot by means of a die-stamp. Naturally the tail spreads out, and consequently can no longer pass back through, so that the band reduced to a ring form can no longer be removed from its position. Moreover, this ring cannot be displaced on account of the two enlargements *a a'*, which prevent this. Naturally the height of the band should be about equal to the height of the part of the neck of the receptacle situated between the two enlargements.

By reason of the application of this band the metallic wire *o* can no longer be removed, and consequently the capsule cannot be taken off. By this means the quality of the liquid or of any other substance contained in the vessel is guaranteed by the stamp or seal imparted by the metallic tail *q* and by impressions which may have been made on the capsule or other part protected by the latter.

In order to open the receptacle, it is indispensable either to break the capsule or to cut



the metallic wire laterally or the tail *q*, on which the seal is imprinted.

It is not necessary that the above-mentioned wires should be entirely of metal.  
5 They may be also of threads constituted by metallic wires combined with twisted materials or by threads of twisted material only.

What I claim as my invention, and desire to secure by Letters Patent, is—

10 In combination with a bottle having two annular enlargements on its neck, a capsule covering the end of the bottle-neck, a wire loop having a portion extending between the bottle-mouth and the top of the capsule and  
15 two arms extending downwardly on two sides of the bottle-neck and outside of the

capsule, said arms having eyes at their extreme ends, said eyes lying in the space between the annular enlargements, a fastening means passing around the bottle-neck between the enlargements and through the eyes, and a covering-strip for said fastening means having means for locking its ends together.

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

BINDO PERUZZI DE MEDICI.

Witnesses:

AVVQEREMIA TUCCI,  
LOLLIE DINOLE.