May 4, 1926. 1,583,485

W. NEIL

CAP OR CLOSURE

Filed June 16, 1924

Fig. 1

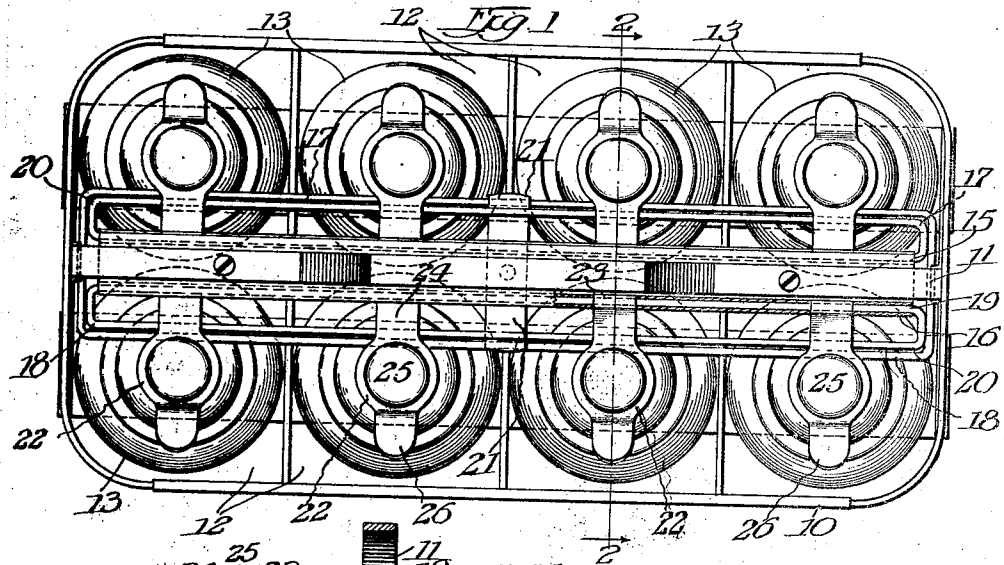


Fig. 2.

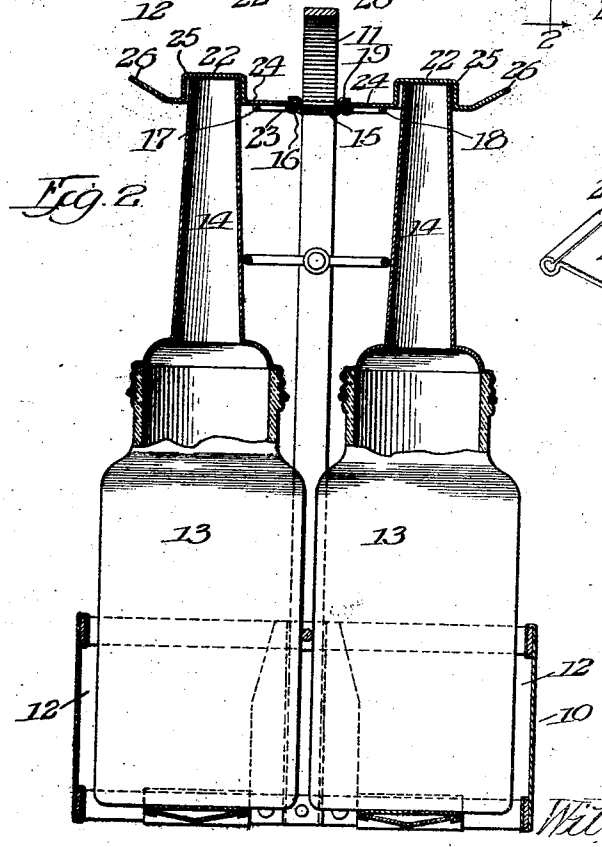
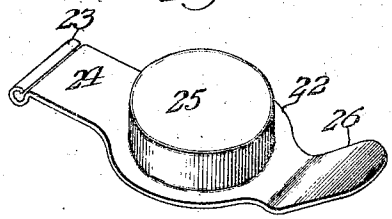


Fig. 3



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Patented May 4, 1926. 1,583,485

UNITED STATES PATENT OFFICE.

WILLIAM NEIL, OF CHICAGO, ILLINOIS, ASSIGNOR TO WM. NEIL & CO., OF CHICAGO, ILLINOIS.

CAP OR CLOSURE.

Application filed June 16, 1924. Serial No. 720,176.

To all whom it may concern:

Be it known that I, WILLIAM NEIL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Caps or Closures, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

The invention relates to caps or closures and is primarily designed to provide a construction capable of being actuated by the receptacle to be capped to cause the closure to be arranged to allow the receptacle to be capped.

It is a feature of the invention to provide a construction capable of the above advantage which may be readily stamped from a blank of suitable material to provide a capping portion and also a part engageable by the receptacle to be capped which part causes the structure to be moved so as to allow the capping portion to cap or close the open end of a receptacle.

It is an object of the invention to produce a construction capable of performing the last mentioned function in the above mentioned manner and which may be hingedly or pivotally secured in place and be moved upwardly upon its hinge to thereby allow the receptacle to be located in a manner to permit the capping portion of the device to cooperate with and close the receptacle upon its introduction to a rack or container in which the receptacle is confined.

It is another object of the invention to provide a construction such as above referred to which is gravity actuated towards its capping position and which will also be maintained in capping position by said force, thereby eliminating the necessity of employing means other than said force to accomplish this end resulting in the production of a more simplified structure.

It is an additional object to form the capping portion of the structure so that it will readily shed water etc. and thus prevent it from finding its way into the interior of the receptacle.

Another object of the invention is to construct a device having the above qualifications and to associate it with a container having means for manually elevating it and to also provide a means for limiting the downward movement thereof so that it will be in position to be engaged by a receptacle to allow it to be automatically actuated or elevated to thereby permit it to cap the recepacle upon the introduction of the receptacle into the container.

The invention will be explained in conjunction with the accompanying drawings which illustrate one embodiment thereof and its association with a container in which a number of receptacles are stored ready for use, a structure of this general construction being shown and described in my copending application, Serial No. 634,462, filed April 25, 1923, it being understood however that this invention is not limited in its application to a structure of this character and that other changes and modifications may be resorted without departing from the spirit of the appended claims forming a part hereof.

In the drawings Fig. 1 is a plan view of a container in which a number of receptacles are temporarily stored and having a capping device capable of the above advantages associated therewith.

Fig. 2 is a section taken on the line 2—2 of Fig. 1 and

Fig. 3 is a perspective view of the cap illustrated in Figs. 1 and 2.

The invention is herein shown and described in conjunction with a container such as those employed at automobile filling stations the containers being ordinarily of a portable character or else located and exposed to dust, dirt and weather which containers temporarily store a number of receptacles from which lubricating and other oils are dispensed in relatively small quantities.

The container 10 may be of any desired construction and in the present instance is provided with a bail or handle 11 whereby the container may be readily transported from one location to another. The container is divided into compartments 12—12 in each of which a receptacle 13 is removably confined. These receptacles are each provided with a spout 14 to facilitate pouring the lubricant therefrom, the ends of said spouts terminating in proximity to a member designated 15 which extends substantially from one end to the other of the container 10 and is located below and secured to a portion of

the bale or handle 11. The opposite longitudinal edges of the member 15 are formed as indicated at 16 to pivotly and respectively support members 17 and 18. These members 17 and 18 are each comprised of the parallel portions 19 and 20 the part 19 being mounted in one of the parts 16, the other portion being free to swing upwardly, it being limited in its downward movement by means of a stop or support 21 which is arranged transversely of the handle and the member 15 and projects sufficiently to engage the free or swinging portions of the members 17 and 18. The elements forming the caps or closures 22 are arranged upon opposite sides of the member 15 and are in alignment with the centers of the compartments into which the container 10 is divided and thus are also in alignment with the spouts of the receptacles arranged in said compartments. The elements which form the caps or closures are hingedly connected to the opposite edges of the strip or member 15 through the medium of a part such as 19 of one of the members 17 and 18 and said elements project across and rest upon the respective portions 20 of the members 17 and 18 and thus are permitted to be actuated independently of each other and the members 17 and 18 or simultaneously with each other upon the movement of said members 17 and 18.

The elements forming the caps or closures 22 are preferably stamped from a suitably shaped blank which when formed is shaped to produce the hinge part 23, the neck 24 which is designed to rest upon either of the members 17 and 18, and is further formed to provide the inverted cup shaped part 25 which caps the receptacle and in addition has the projecting part 26 which is bent upwardly and arranged so that it is in the path of the spout of a receptacle as the receptacle is arranged in one of the compartments of the container. This last mentioned portion provides a means for automatically raising the cap so as to permit the end of the spout to be located to allow the inverted cup shaped part to cap said end of the spout when the receptacle is arranged in one of the compartments of the container.

From the foregoing description of the structure it is manifest that a simple and efficient device is produced whereby a receptacle may be automatically capped upon its insertion into a container and which capping device readily permits the removal of the receptacle therefrom, also that the structure will effectively prevent water, dirt and dust from finding its way to the interior of the receptacle when the capping device is arranged in capping position.

It is further evident that the arrangement is such that one or all of the capping devices may be raised thereby permitting an individual receptacle to be inserted or removed from the container without affecting the remaining capping devices, also that all of the capping devices may be arranged and held in a position which allows the insertion and removal of said receptacles without their engaging with the capping devices.

Having thus described the invention what I claim and desire to cover by Letters Patent is:

1. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, means providing a closure for the receptacle when said receptacle is located in the container, said closure having means engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

2. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, means providing a closure for the receptacle when said receptacle is located in the container, said closure having an extension engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

3. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, means providing a closure for the receptacle when said receptacle is located in the container, said closure having an angularly arranged extension engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

4. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, means providing a hinged closure for the receptacle when said receptacle is located in the container, said closure having means engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

5. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, horizontally arranged means providing a closure for the receptacle when said receptacle is located in the container, said closure having an extension engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

6. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, horizontally arranged pivoted means providing a closure for the receptacle

when said receptacle is located in the container, said closure having an angularly arranged extension engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

7. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, a hinged closure for the receptacle, said closure having an inverted cup shaped portion and being provided with means engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

8. In a device of the character described, the combination of a container in which a receptacle is adapted to be removably arranged, a hinged closure for the receptacle, said closure having an inverted cup shaped portion and being provided with an angular extension engageable by the receptacle upon the introduction of the receptacle into the container for actuating the closure to cap said receptacle.

9. A capping device having means whereby it may be pivotally secured in position, said device having an inverted cup shaped portion for capping the receptacle and having an upwardly extending angularly arranged portion engageable by the receptacle to cause the movement of the capping device to allow the receptacle to be capped.

10. A capping device having means whereby it may be movably mounted in position, having means for capping a receptacle and having means engageable by the receptacle to move said capping device to allow the receptacle to be capped.

11. A capping device having means whereby it may be pivotally mounted in position, said device having means for capping a receptacle and having means engageable by the receptacle to cause the movement of the capping device to allow the receptacle to be capped.

12. In a device of the character described the combination of a container in which a receptacle is adapted to be arranged by an endwise movement of the receptacle relative to the container, a capping device located in the path of movement of the opposite end of the receptacle when said receptacle assumes an upright position and said capping device having means for automatically actuating the capping device upon engagement of the receptacle and said means to cause said last mentioned end of the receptacle to be capped.

In witness whereof, I hereunto subscribe my name this 6th day of June A. D., 1924.

WILLIAM NEIL.