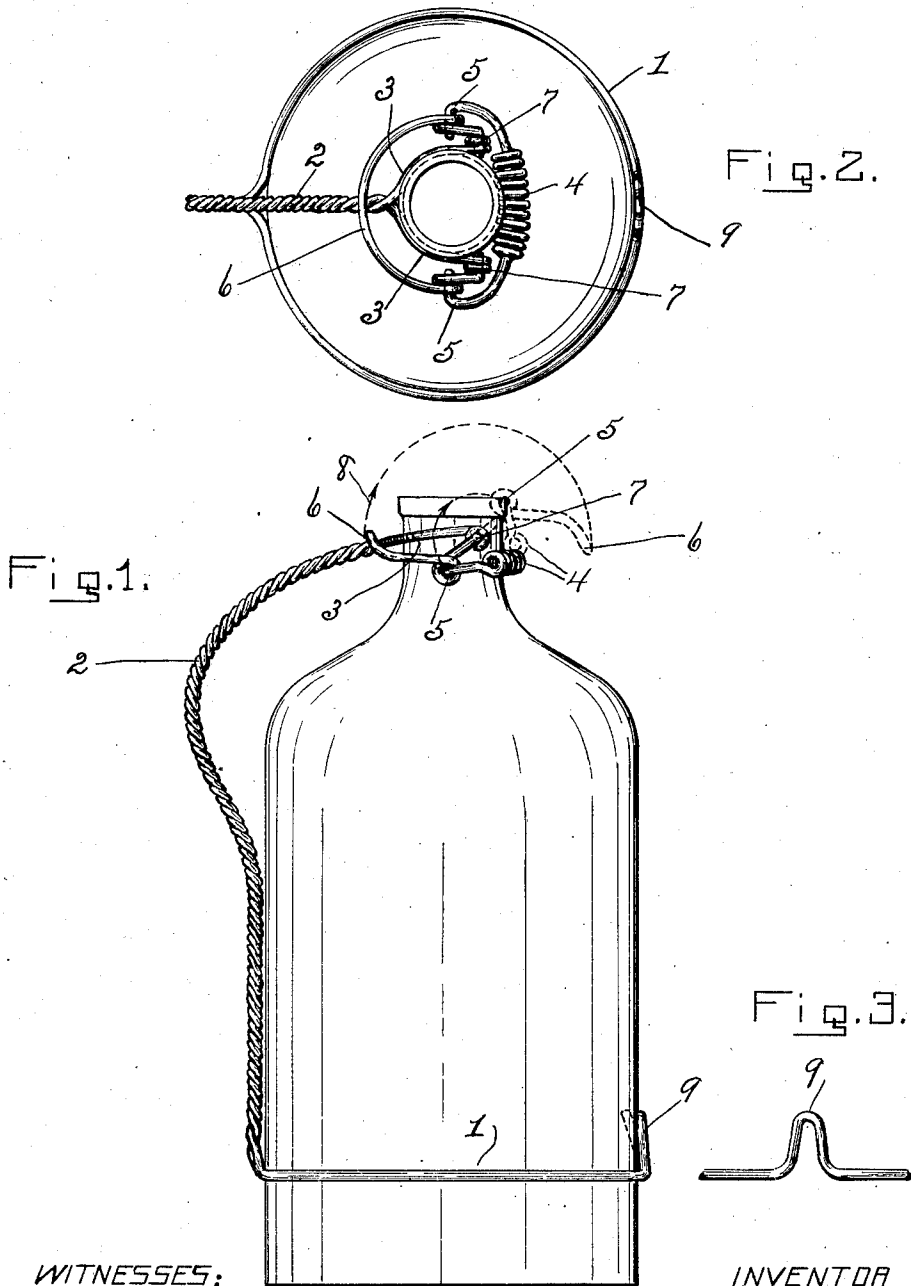


F. LANDAU.
DETACHABLE HANDLE FOR BOTTLES.
APPLICATION FILED MAY 10, 1911.

1,016,421.

Patented Feb. 6, 1912.



WITNESSES:

J. E. Donabach.
E. C. Bakeman.

INVENTOR

Frederick Landau,

BY Frank C. Curtis,

ATTORNEY

UNITED STATES PATENT OFFICE.

FREDERICK LANDAU, OF TROY, NEW YORK.

DETACHABLE HANDLE FOR BOTTLES.

1,016,421.

Specification of Letters Patent.

Patented Feb. 6, 1912.

Application filed May 10, 1911. Serial No. 626,239.

To all whom it may concern:

Be it known that I, FREDERICK LANDAU, a citizen of the United States, residing at Troy, county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Detachable Handles for Bottles, of which the following is a specification.

The invention relates to such improvements and consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification. Similar characters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in side elevation showing a bottle provided with my improved detachable handle. Fig. 2 is a top plan view of the same. Fig. 3 is a view in front elevation of a bottle-engaging bend in the loop which receives the body of the bottle, the remainder of the loop being broken away.

The principal object of the invention is to provide a removable handle for water-bottles and the like, which shall be applicable to bottles differing somewhat in size, and which when applied to the bottle will serve as a ready means for lifting and operating the same.

The handle comprises a loop adapted to engage the body of the bottle; clamping mechanism adapted to engage the neck of the bottle; and a grasp connecting together said loop and clamping mechanism.

In the preferred form of the invention shown in the drawings, the several parts of the handle are made wholly of wire.

The loop, 1, is formed of a piece of wire bent to circular form, and having its branches twisted together to form the grasp, 2, of the handle, said branches terminating at the upper end in a yoke, 3, adapted to receive the neck of the bottle and form one of the clamping members. The other clamping member is shown in the form of a coil-spring, 4, having its ends pivotally connected at, 5, with loops formed in the operating lever, 6, said lever being formed of a piece of wire having its ends pivotally connected at, 7, with loops in the end of the yoke 3.

The two clamping members, 3 and 4, are adapted to be drawn together by the lever, when the lever is moved in a direction op-

posite to that of the arrow, 8, in Fig. 1, and said clamping members are adapted to be forced apart to release the neck of the bottle when said operating lever is moved in the direction of the arrow 8. The operating lever, 6, engages the grasp, 2, which forms a stop for the lever after the same has been swung past the dead center into locking position.

The loop, 1, has an upwardly projecting bend, 9, formed at the front side, which bend, 9, is normally inwardly inclined and adapted to engage bottles of somewhat smaller diameter than the ring, the normal position of said bend being indicated by dotted lines in Fig. 1. When a larger bottle is inserted, the bend, 9, is forced outward to a more or less vertical position, so that smaller bottles are supported by the back part of the loop, 1, and by the bend, 9, while larger bottles are supported by a greater extent of the loop, 1, as well as by the bend, 9, and the largest size bottle is supported by the entire loop.

The grasp of the handle may be of any known form.

By having the clamping mechanism formed in part of a wire coil, I am able to readily apply the device to bottles of somewhat different sizes, as said coil will spring or give more or less in adapting itself to the larger sizes without danger of breaking the bottle.

What I claim as new and desire to secure by Letters Patent is—

1. In a device of the class described, and in combination, a grasp; a support to engage the body of a bottle; and clamping mechanism adapted to engage the neck of the bottle, said clamping mechanism consisting of an operating lever-member and a pair of clamp-members, one of said members comprising in part a wire spring-coil.

2. In a device of the class described, and in combination, a grasp; a loop to receive the body of a bottle; a clamping yoke connected directly to the grasp adapted to receive the neck of the bottle; a clamping spring-coil adapted to engage the neck of the bottle in cooperation with said yoke; and an operating lever pivotally connected with the ends of said coil and the ends of said yoke.

3. In a device of the class described, and in combination, a wire loop adapted to receive the body of a bottle; a grasp formed

by the twisted-together branches of said wire; a yoke formed by the ends of said wire adapted to receive the neck of the bottle; a clamping spring coil adapted to engage the neck of the bottle in coöperation with said yoke; and an operating lever pivotally connected with the ends of said coil and the ends of said yoke.

4. In a device of the class described, and in combination, a grasp; self-adjusting means for clamping said grasp upon the neck of a bottle; and a loop connected with

said grasp and adapted to receive the body of the bottle, said loop having at its front side an inwardly inclined bend adapted to engage bottles of smaller diameter than said loop. 15

In testimony whereof, I have hereunto set my hand this 6th day of May, 1911.

FREDERICK LANDAU.

Witnesses:

R. A. LEDUC,

J. E. DONSBACK.

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