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J. F. LEHR, SR

JAR LIFTER

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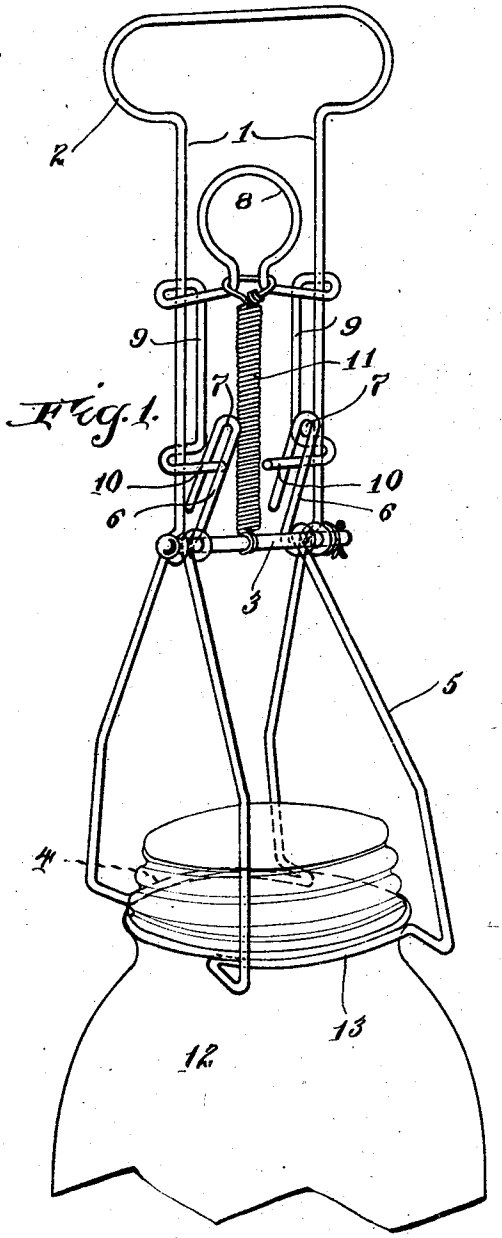


Fig. 1.

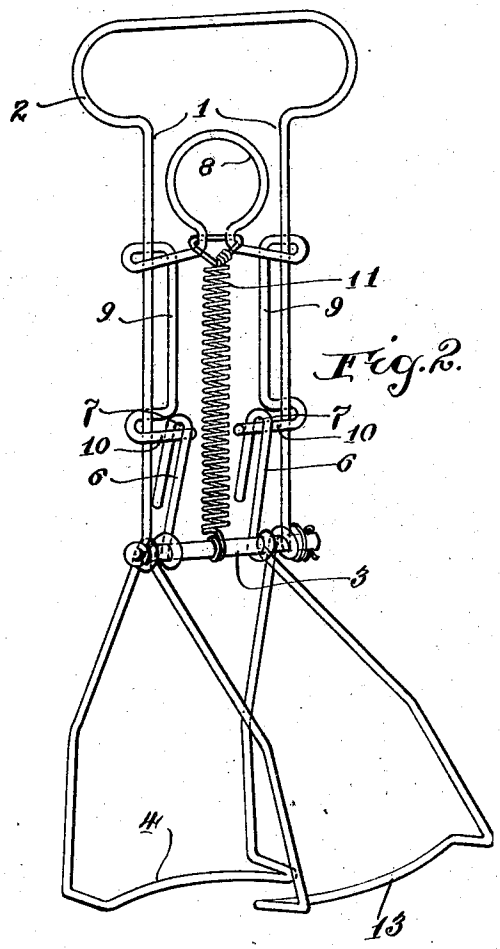


Fig. 2.

Inventor

John F. Lehr, Sr.

By Thomas W. Y. Clark

Attorney

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JOHN F. LEHR, SR., OF BALTIMORE, MARYLAND.

JAR LIFTER

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My invention relates to new and useful improvements in a jar lifter, and has for its objects to produce a lifter which will positively grip and hold the jar and which will release the jar when desired. Another object is to make a lifter that will be inexpensive to manufacture, and assemble, and which will not readily get out of order. Other objects and advantages will be apparent from the following description and the accompanying drawings in which:—

Figure 1 is a perspective view of the lifter holding fast a jar; and Fig. 2 is a perspective view of the lifter with the jaws spread apart.

Similar numerals refer to similar parts in the two views.

The lifter shown is constructed of wire, having a substantially vertical member 1, the upper portion of which is formed into a handle 2. At the lower end of the vertical member the wires are looped to form eyes through which bolt 3 is passed. Below the bolt the wires are bowed outwardly to leave room for the top of the jar, and the lower part of the wire is bent into a concave formation and bent up at right angles, about, to form a jaw 4 to securely fit around a jar neck. An oppositely bowed member 5, with an oppositely concaved jaw 13, has the upper part looped to form eyes through which bolt 3 also passes, thereby pivotally mounting member 5. The upper parts of the wire forming member 5 are bent into upwardly and outwardly directed levers 6 with the ends bent back on themselves to form slots 7.

The vertically sliding operating member has a finger eye 8, and from there the sides 9 of the member surround the vertical member 1 to accurately and easily slide thereon. The free ends of the sliding member serve as pins 10 to operate in slots 7, so that on the vertical movement of the member, the jaws will be alternately spread and drawn together. The operating member has a spring 11 to hold it down.

After the parts are formed, bolt 3 is put in place, the sides of the vertical member 1 are squeezed together and the operating member put in place, then the spring may be attached, or the spring could be formed and put on prior to the attaching of the operating member to vertical member 1.

Due to the vertical position of the handle and the bowed member 5 swinging from a pivot, the jaws tend to swing together, without any other influence, and since there is but one pivot point and that between and above the bearing points of the jaws on the jar, the weight of the jar tends to draw the jaws together, and the greater that weight, the greater that tendency, so long as no sliding tendency between the jaws and jar is present.

In operation the handle is gripped, the eye 8 pulled up, which pulls up pins 10, which in turn move up levers 6 and the jaws are thereby opened. The jaws are then placed around the neck of a jar 12. The slope of the jaws on the bowed parts is such as without the sliding member even, the tendency of the jaws to spread would be slight, and that tendency would not exist at all if the jar has a horizontal shoulder, but with the sliding member, the levers 6 are so bent, that even a slight tension down on the pins 10 holds the jaws tightly closed on the jar neck and makes it nearly impossible to open the jaws without releasing the sliding member from the levers 6.

As many changes might be made in the above arrangements and as many variations might be made without departing from the scope of the invention, it is intended that all the features herein described and shown in the accompanying drawings shall be interpreted as illustrative, and that the invention be limited only by the following claims.

I claim:

1. A jar lifter comprising a substantially vertical member, a depending bowed member rigid with respect to said vertical member, an oppositely bowed member pivoted to the lower part of said vertical member, opposite inwardly directed concaved jaws at the lower ends of said bowed members, and means to hold said jaws in gripping position.

2. A jar lifter comprising a substantially vertical member, a depending bowed member rigid with respect to said vertical member, an oppositely bowed member pivoted to the lower part of said vertical member, opposite inwardly directed concaved jaws at the lower ends of said bowed members, and vertically sliding locking means on said vertical member to hold said jaws in gripping position.

3. A jar lifter comprising a substantially vertical member, a depending bowed member rigid with respect to said vertical member, an oppositely bowed member pivoted to the lower part of said vertical member, op-

posite inwardly directed concaved jaws at the lower ends of said bowed members, a lever extending from and rigid with respect to said pivoted member, and means, coacting with said lever, to hold said jaws in gripping position.

4. A jar lifter comprising a substantially vertical member, a depending bowed member rigid with respect to said vertical member, an oppositely bowed member pivoted to the lower part of said vertical member, opposite inwardly directed concaved jaws at the lower ends of said bowed members, a lever extending from and rigid with respect to said pivoted member, and resiliently held means, coacting with said lever, to hold said jaws in gripping position.

5. A jar lifter comprising a substantially vertical member, a depending bowed member rigid with respect to said vertical member, an oppositely bowed member pivoted to the lower part of said vertical member, opposite inwardly concaved jaws at the lower ends of said bowed members, a lever extending from and rigid with respect to said pivoted member, and means coacting with said lever to alternately open said jaws and to lock them in gripping position.

JOHN F. LEHR, SR.