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E. E. MILLER

2,011,497

JAR LIFTER

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Fig. 2

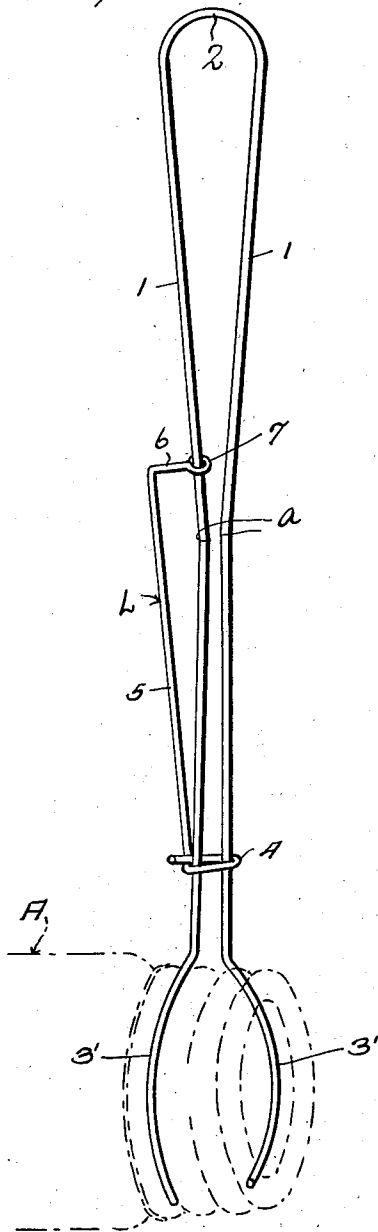
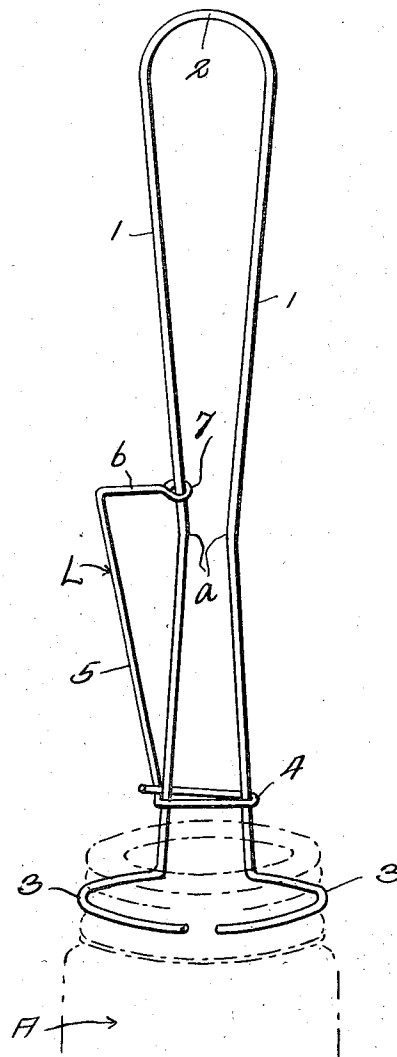


Fig. 1



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JAR LIFTER

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3 Claims. (Cl. 294—99)

This invention relates to a jar lifter and primarily has relation more particularly to a device of this kind especially designed and adapted for use in handling jars for canning or cold packing.

It is an object of the invention to provide a device of this kind which is constructed and operated in a manner whereby jars can be effectively handled in canning or cold packing with the substantial elimination of danger of burning or scalding the hands of the operator.

It is also an object of the invention to provide a device of this kind which engages the jar in a manner whereby is substantially eliminated the liability of dropping the jar.

A still further object of the invention is to provide a device of this kind comprising a pair of spring jaw carrying arms having a locking device associated therewith, the operating means for the device being to one side of the arms so that in operating the locking or holding device the hand gripping the device will offer no obstruction to the desired visual access to the jar with which the device is employed.

Still another object of the invention is to provide a device of this kind comprising a pair of jaw carrying resilient or spring arms together with a holding or locking device coacting with said arms, said arms and device being so assembled to allow the tension of the arms to hold the device against slipping.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved jar lifter whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:—

Figure 1 is a view in perspective of a lifting device constructed in accordance with an embodiment of my invention;

Figure 2 is a view in perspective of a device constructed in accordance with another embodiment of my invention.

As disclosed in Figure 1 of the drawing, my improved lifter comprises a pair of elongated arms 1 possessing a certain degree of inherent resiliency and preferably formed of a single length

of wire of desired gauge. The outer or rear extremities of these arms 1 are connected by an integral bar 2 herein disclosed as of an arcuate form and disposed on an outbow while the opposite or working ends of the arms 1 are continued to provide the opposed gripping jaws 3 substantially at right angles to the arms 1.

The arms 1 converge from their opposite ends to a point *a* substantially midway the lengths of said arms whereby the tensioning action of the device is materially facilitated and particularly with respect to the locking or holding device L. The device L is also preferably formed of a single length of wire of desired gauge and comprises a relatively narrow loop 4 through which the arms 1 are directed, said loop being of a predetermined length and continued at one end by an elongated arm 5 disposed to one side of the arms 1 and continued on a rearward and outward incline with respect to the adjacent arm 1. The rear or outer end of the arm 5 is continued by an inwardly disposed extension arm 6 terminating in an eye 7 through which is freely directed the adjacent arm 1. The arm 5 is of a length to bring the eye 7 at a point *a* on the associated arm 1 when the loop 4 is at substantially the limit of its movement toward the jaws 3.

The device as illustrated in Figure 1 is of a type particularly intended to be employed in connection with jars A or kindred containers in canning or cold packing and when said jaw is to be immersed or submerged within a boiler of water. In the use of the device as illustrated in Figure 1 the jaws 3 are caused to engage opposite portions of the jar A and more particularly the neck thereof whereupon the device L is forced downwardly toward the jaws 3 with the result that said jaws are brought into effective clamping engagement with the jar so that the same can be readily raised or lowered or otherwise handled with the liability substantially eliminated of the jar dropping from the device.

It is to be noted that the arm 5 of the locking device is to one side of the arms 1. This is of advantage as it assures the hand gripping the locking device to be at one side of the arms 1 so that no interference will be offered to the visual access of the operator to the jaw A with which the device is being used.

It is also to be further stated that the extension arm 5 with its eye 7, which engages an arm 1 of the device, together with the particular convergent arrangement of the arms 1 assure the device L as a result of the inherent resiliency or tension of the arms 1 to effectively maintain itself

in desired working position or, in other words, this device L is substantially free of the liability of slipping after it has been adjusted by the operator to bring the jaws 3 into desired gripping contact with the jar A or kindred receptacle.

The embodiment of my invention as illustrated in Figure 2 is substantially the same as that illustrated in Figure 1 and for which reason the various parts are identified by the same reference characters as employed in connection with Figure 1 except the jaws 3'. The jaws 3' in this second embodiment of my invention extend straight forward from the working ends of the arms 1 and this form of device is particularly intended to be used in connection with a jar which is to be applied within or removed from a conservor or oven.

From the foregoing description it is thought to be obvious that a jar lifter constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

1. A device of the class described comprising a pair of resilient arms arranged side by side and carrying opposed jaws, the portions of the arms adjacent to the jaws being in converging relation, a locking device including a loop through

which said converging portions of the arms are directed, an arm extending from one end portion of the loop and extending in a direction away from the jaws, the outer end of said arm having an angularly related arm having an eye through which one of the resilient arms is freely directed.

2. A device of the class described comprising a pair of resilient arms arranged side by side and carrying opposed jaws, the portions of the arms adjacent to the jaws being in converging relation, a locking device including a loop through which said converging portions of the arms are directed, an arm extending from one end portion of the loop and extending in a direction away from the jaws, the outer end of said arm having an angularly related arm having an eye through which one of the resilient arms is freely directed, said first named arm of the loop being disposed on an incline in a direction from the loop and from the resilient arms.

3. A device of the class described comprising a pair of resilient arms arranged side by side and carrying opposed jaws, the portions of the arms adjacent to the jaws being in converging relation, a locking device including a loop through which said converging portions of the arms are directed, an arm extending from one end portion of the loop and extending in a direction away from the jaws, the outer end of said arm having an angularly related arm having an eye through which one of the resilient arms is freely directed, the opposite end portions of the resilient arms being also in convergence.

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