No. 701,189. Patented May 27, 1902.

A. H. FLOWERS.

LIFTING DEVICE.

(Application filed Jan. 15, 1902.)

(No Model.)

Fig. 1.

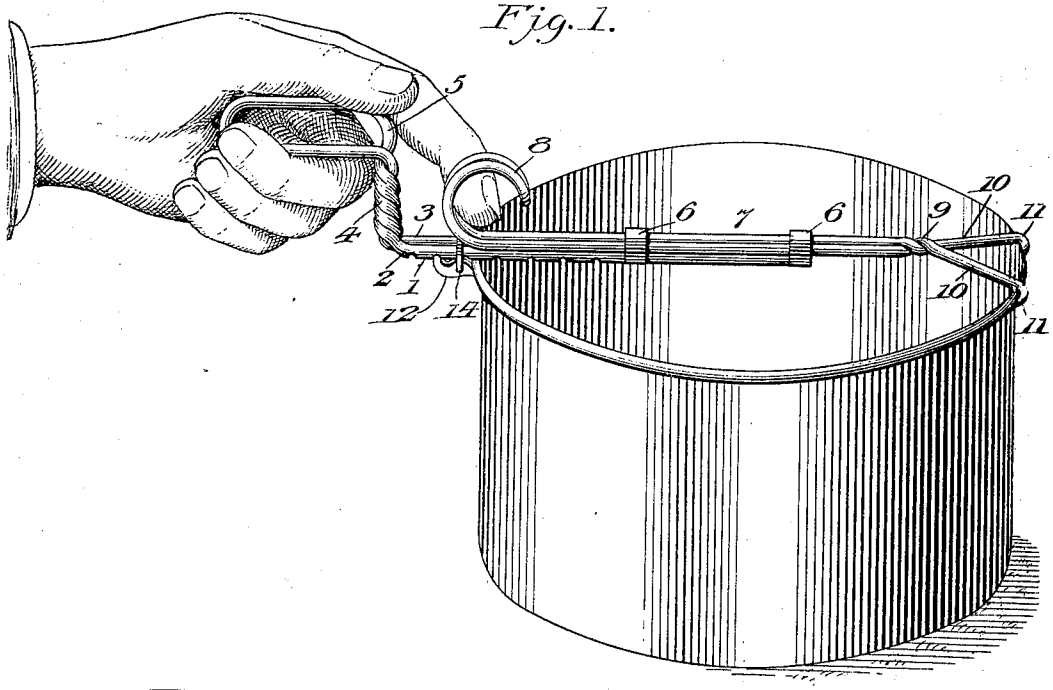


Fig. 2.

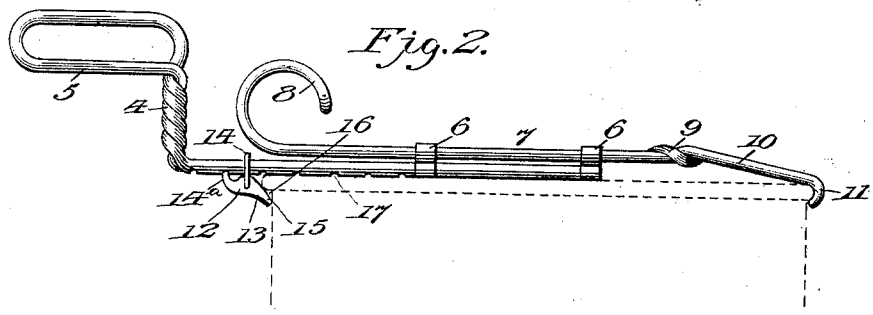
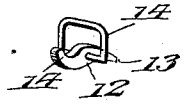


Fig. 3.



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UNITED STATES PATENT OFFICE.

ALONZO H. FLOWERS, OF WESTVILLE, FLORIDA.

LIFTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 701,189, dated May 27, 1902.

Application filed January 15, 1902. Serial No. 89,919. (No model.)

To all whom it may concern:

Be it known that I, ALONZO H. FLOWERS, a citizen of the United States, residing at Westville, in the county of Holmes and State of Florida, have invented new and useful Improvements in Lifting Devices, of which the following is a specification.

This invention relates to a lifting device or detachable handle for application to cooking utensils and the like; and the purpose of the same is to provide a simple and effective adjustable lifting device adapted for use with utensils of different dimensions, the adjustment being under the control of the user and easily obtained without complex manipulation.

The invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view showing the improved device applied to a utensil and the manner of using the same. Fig. 2 is a side elevation of the improved device shown applied to the rim of the utensil in dotted lines. Fig. 3 is a detail perspective view of a part of the improved device.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates the body of the improved lifting device or detachable handle, composed of two closely-arranged members 2 and 3, preferably constructed of wire of suitable gage and stiffness and bent at one extremity at a right angle and twisted, as at 4, to connect the parts and provide for the formation of a looped handle 5, elevated above the plane of the body 1.

The precise mode of manufacturing the improved device is not essential; but a simple method of arriving at the production of the device consists in doubling a piece of stiff wire and bending the same in the manner set forth to produce the several parts mentioned. The body 1 when in use will be disposed horizontally, and extending upwardly from the same are guide-loops 6, fixed to the upper member 3 and longitudinally alined, it being obvious that the two members 2 and 3 may be secured in any suitable manner, so as to hold them in inseparable relation. In the guide-loops 6 a sliding member 7 is mounted and composed of a doubled piece of wire having the rear extremity curved to form a finger-grip 8, which is large enough to insert the end of the index-finger of the hand of the operator therethrough to properly adjust the said sliding member. Adjacent to its forward extremity the member 7 has the parts thereof immovably connected by a lock-twist 9, and from the said twist the parts of the member 7 are divergently bent to form arms 10, having their terminals bent downwardly to provide gripping-hooks 11. The member 7 is free to slide through the guide-loop 6 in a longitudinal direction and is adjustable by the operator for application and retention during the lifting operation performed therewith.

In order to render the improved device adjustable or capable of being applied to utensils having different diameters, an adjustable catch 12 is employed therewith, and consists of a dog 13, pivotally held by a loop 14, extending over and slidable on the body 1, the rear end of the dog having an upturned nose 14^a and the front end a downwardly-extending lip 15, preferably formed with a convex bearing-face 16. The end portion of the member 2 of the body 1 has a plurality of notches 17 therein at regular intervals apart, with which the nose 14^a is adapted to engage, and it will be seen that the gripping contact elements of the improved device are provided by the catch 12 and the hooks 11 at opposite points, the said catch being in a plane centrally of said hooks.

In using the improved lifting device or detachable handle the catch 12 is first adjusted to accommodate the diameter of the utensil desired to be lifted and carried from one place to another, and the hooks 11 are then caught over one portion of the rim of the utensil and the lip 15 brought to bear against the opposite portion of the rim of said utensil. In this application the slidable member 7 will be pushed outwardly from the body far enough to gradually and positively dispose the catch 12 in relation to the utensil, and afterward the said slidable member will be drawn by the operator rearwardly to engage the hooks 11 with the utensil, and when the catch and hooks are so applied the slidable member will

be immovably held by the operator exerting an inward-pulling tension thereon. In releasing the improved device from the utensil the slidable member 7 is pushed outwardly through the guide-loop 6 to disengage the hooks 11, and the entire device can then be readily withdrawn from the utensil. It will be seen that the weight or pressure of the portion of the utensil engaged by the lip 15 of the catch 12 causes the nose 14^a to be firmly held in engagement with the notch 17, and the utensil can be lifted without liability of accidental disengagement thereof from the improved handle.

The main advantage, which will be appreciated in the present improved structure, resides in the adjustable feature whereby it may be used with utensils of different dimensions, and in this respect is materially superior to other lifting devices, holders, or the like heretofore manufactured.

It is proposed to plate or otherwise ornament the lifting device set forth, and in view of its simplicity of construction can be cheaply manufactured and sold.

Having thus fully described the invention, what is claimed as new is—

1. A lifting device comprising a body with a rear upwardly-projected terminal to form a grip, a member longitudinally slidable on the body in advance of the grip and provided with a rear finger-loop and front gripping extremities, and a pivoted catch slidably mounted on the body and independent of the said member.

2. A lifting device having a body with notches in the under portion thereof, a slidable member supported by the body and provided with gripping extremities and a rear engaging device, and a pivoted catch slidable on the body and having a portion thereof adapted to engage the said notches, said catch being independent of the slidable member and free for individual adjustment.

3. A lifting device of the class set forth, comprising a body having lower notches and upwardly-projecting guide-loops, a member slidable in the said guide-loops and formed with outer gripping extremities and a rear engaging device, and a catch comprising a loop movable longitudinally in the said body and having a dog pivotally supported thereby and formed with a front engaging lip and a rear nose to take into the said notches.

In testimony whereof I affix my signature in presence of two witnesses.

ALONZO H. FLOWERS.

Witnesses:

HARRY SCHMIDT,

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