

No. 754,250.

PATENTED MAR. 8, 1904.

G. S. SOLOMON.
PLATE LIFTER.

APPLICATION FILED APR. 23, 1903.

NO MODEL.

Fig. 1.

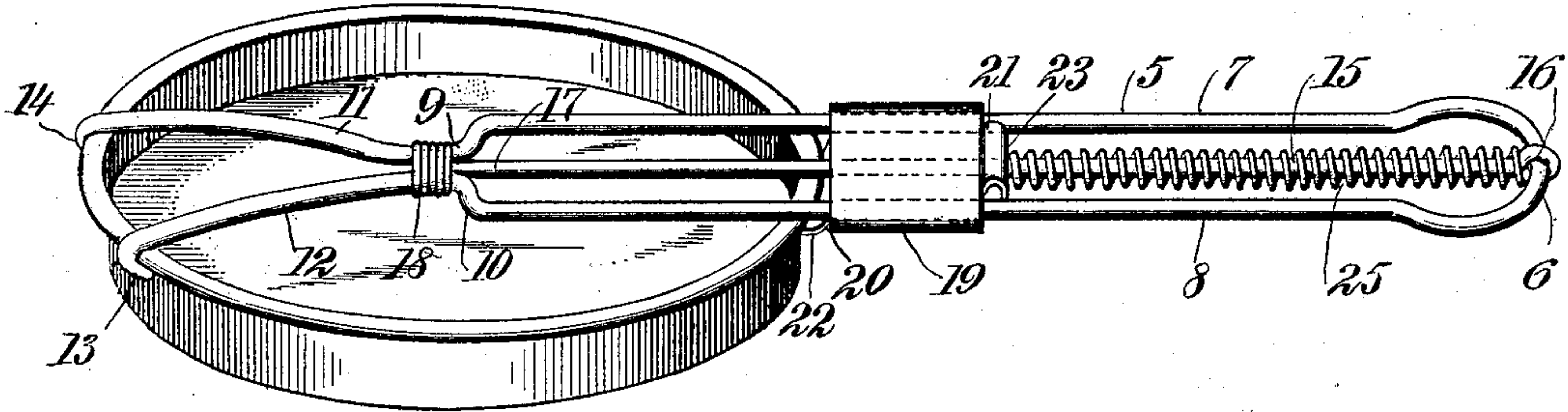


Fig. 2.

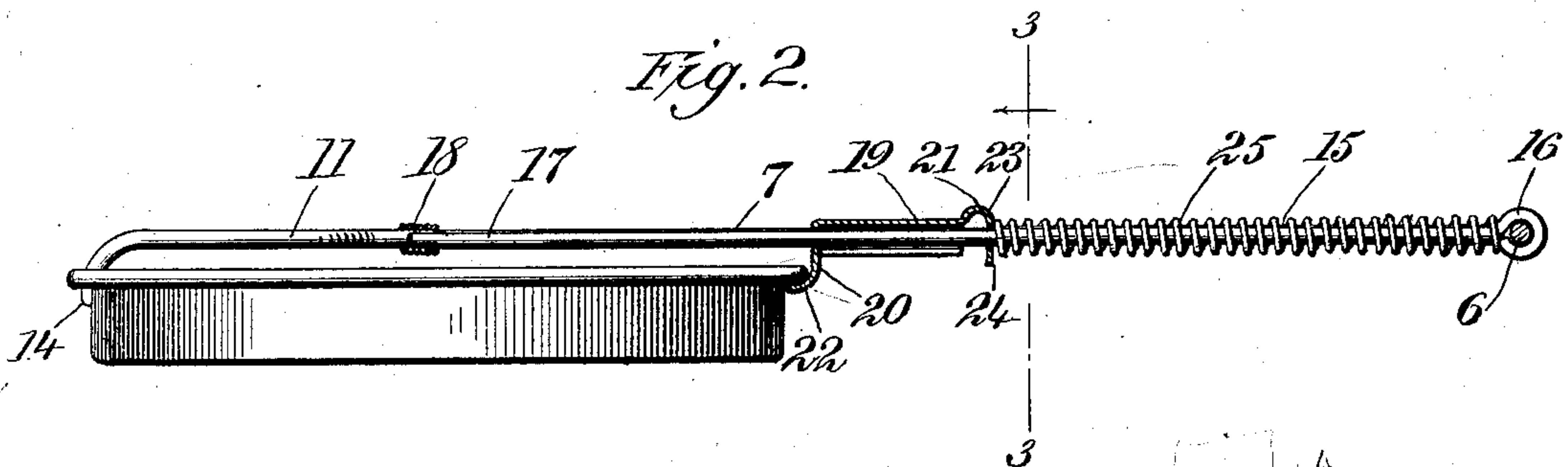
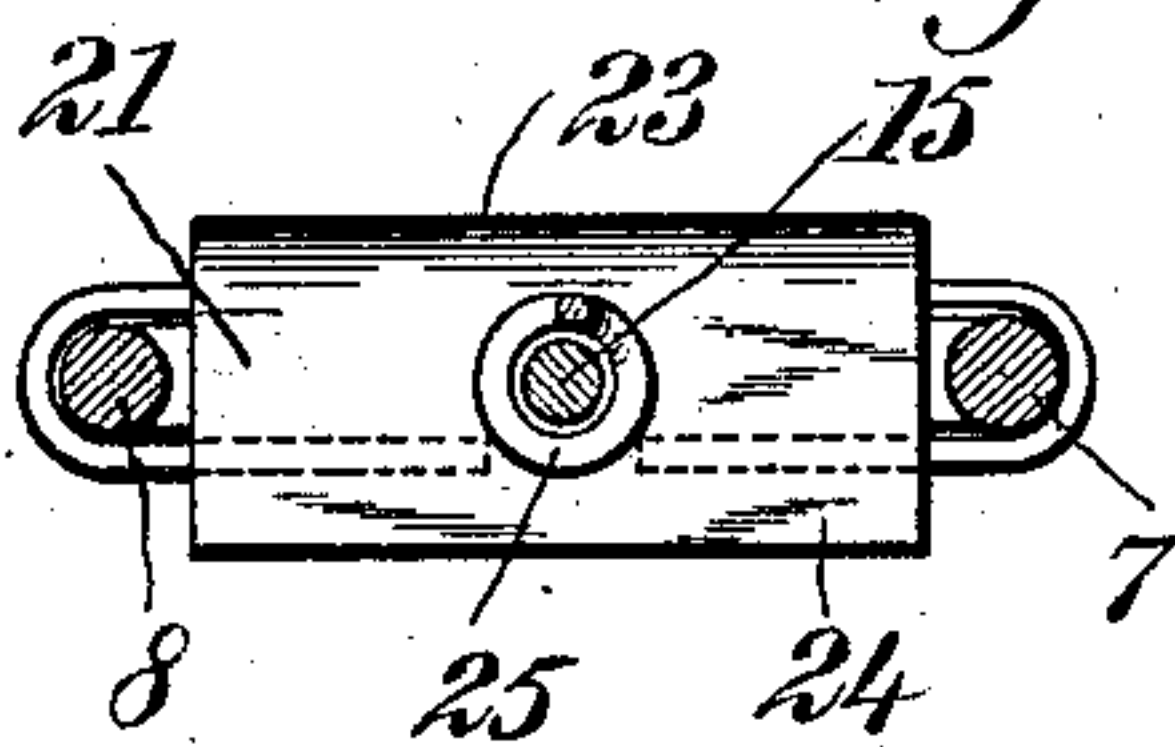


Fig. 3.



WITNESSES:

Paul Hunter
R. B. Caranagh

INVENTOR

George S. Solomon

BY

Munn

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE S. SOLOMON, OF BISBEE, ARIZONA TERRITORY.

PLATE-LIFTER.

SPECIFICATION forming part of Letters Patent No. 754,250, dated March 8, 1904.

Application filed April 23, 1903. Serial No. 153,976. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. SOLOMON, a citizen of the United States, and a resident of Bisbee, in the county of Cochise and Territory of Arizona, have invented new and useful Improvements in Plate-Lifters, of which the following is a full, clear, and exact description.

This invention has reference to certain novel and useful improvements in devices for grasping the edge or flange of plates, pans, or the like to permit such articles to be moved from place to place without necessitating the hands of a person coming in contact with the same.

In carrying out the present invention I have particularly in view the provision of a device of the class described which will be exceedingly simple and durable in its construction and very positive in its operation, the device being so constructed that when the pan is grasped by the lifter such pan cannot turn or fall from the gripping-jaws and thereby spill the contents thereof.

With the above-recited objects and others of a similar nature in view the invention consists in the construction, combination, and arrangement of parts, as is described in this specification, shown in the accompanying drawings, and set forth in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view showing the improved device applied to a utensil and illustrating the manner of using the same. Fig. 2 is a longitudinal sectional view of my device, and Fig. 3 is a transverse sectional view taken on the line 3 3 of Fig. 2.

In the annexed drawings, wherein I have illustrated my invention, 5 designates a rod or strip of wire or any other like material from which the holder is formed, such rod or strip being bent or doubled centrally at 6 to form two members or arms 7 and 8 approximately equal in length, such arms extending parallel for a greater portion of their length and being bent inwardly to form the shoulders 9 and 10, the end portions of the arms then diverging, as at 11 and 12; the extremities of such end portions being curved or bent

to form hooks 13 and 14, these hooks being adapted when the device is in its operative position to grasp the edge or flange of a plate or pan. Arranged centrally between the arms is a central rod 15, which is bent or twisted at one end around the doubled or looped portion 6 of the main frame, as shown at 16, the opposite end portion 17 of this central rod terminating and lying at the point of convergence of the arms 7 and 8, or, in other words, between the shoulders 9 and 10. In order to form a structure which shall possess durability and rigidity, the two arms and the central rod 17 are bound together at the point of convergence by a coil or band of wire or similar material, as shown at 18. Movably mounted upon the parallel arms or members is a slide 19, formed of any suitable material, said slide having lugs 20 and 21 formed thereon, these lugs being apertured to permit the passage therethrough of the central rod 15. The lug 20, which extends downwardly, has its extremity or end portion curved or bent outward, as at 22, to form a tongue adapted to engage with the edge or flange of a pan or dish, as is clearly seen in Figs. 1 and 2. The opposite flange 21 is curved or bent upwardly, as at 23, to form a thumb-rest for moving the slide along the rods, such lug 21 then extending downward, the extremity 24 affording a hold for the fingers, the construction being such that, by grasping the parts 23 and 24 the slide may be easily shifted or moved. In order to quickly and rapidly move the tongue 22 in contact with the rim or flange of a pan when it is desired to grasp the same, an expansion-spring 25 is coiled about the rod 15, the ends of the spring abutting, respectively, against the lug 21 and the loop portion 16 of the central rod.

From the above description, taken in connection with the accompanying drawings, the construction and mode of operation of this improved pan-lifter will be readily apparent. The prongs or hooks 14 and 15 of the device are first fitted over the edges of the pan, as shown in Fig. 1, and the slide is then drawn back the required distance to permit the tongue 22 to grasp a portion of the flange or rim of the pan opposite the part engaging with the hooks.

The slide is then released, and the expansion-spring quickly and rapidly pushes such slide forward, thereby causing the tongue 22 to firmly and rigidly engage the pan. The arms 7 8 may then be used as a handle and the pan removed to any desired place. One of the main advantages which will be apparent is that the device may be adjusted to utensils of various dimensions or size, the spring at all times holding the slide in firm engagement with the pan-rim when the device is in use.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A lifting device comprising arms formed of a single piece of material and extending parallel with each other the greater portion of their distance, the end portions of said arms diverging relatively to each other, inwardly-turned hooks formed at the extremities of said end portions, a rod extending longitudinally between parallel portions of the arms said rod being shorter than the arms and terminating some distance from the ends thereof, a band binding one end of the rod to the arms, a slide movable along the parallel arms, a lug formed on said slide through which the rod extends a

pan-engaging tongue formed on the slide, and tension means adapted to bear against the slide and normally press the latter toward the hooked extremities of the arms, substantially as set forth.

2. A lifting device comprising arms formed of a single piece of material doubled approximately central, said arms having hooks formed at the extremities thereof, a rod relatively shorter than said arms, and arranged centrally between the same, a slide movable along the arms, a pan-engaging tongue formed at one end of said slide, a lug at the opposite end of the slide, said tongue and lug having apertures therein for the passage of a rod, and a coiled tension-spring encircling the rod and normally bearing against the lug for pressing the slide toward the hooked ends of the arms, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE S. SOLOMON.

Witnesses:

M. J. BROWN,
F. FRAZEE.