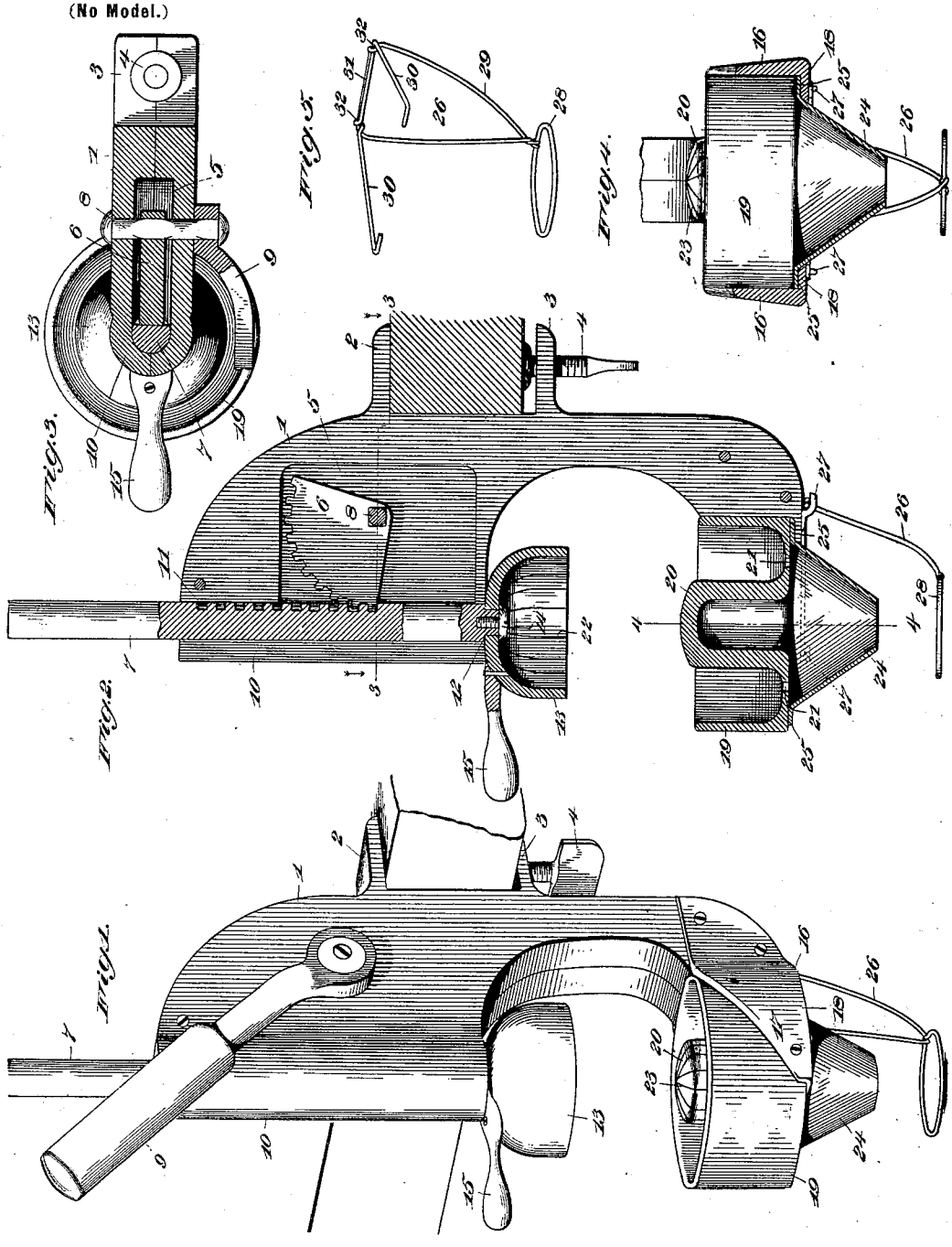
No. 632,387. Patented Sept. 5, 1899.

W. WHITE.

LEMON SQUEEZER.

(Application filed Mar. 25, 1898.)

(No Model.)



Witnesses
W. W. Doyle.
J. Goff Riley

William White, Inventor
By his Attorneys.
C. A. Snow & Co.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM WHITE, OF BEAVER CITY, OKLAHOMA TERRITORY.

LEMON-SQUEEZER.

SPECIFICATION forming part of Letters Patent No. 632,387, dated September 5, 1899.

Application filed March 25, 1898. Serial No. 675,129. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WHITE, a citizen of the United States, residing at Beaver City, in the county of Beaver and Territory of Oklahoma, have invented a new and useful Lemon-Squeezer, of which the following is a specification.

The invention relates to improvements in lemon-squeezers.

The object of the present invention is to improve the construction of lemon-squeezers and to provide a simple and comparatively inexpensive device adapted to be readily clamped to a bar, counter, or similar support and capable of enabling great pressure to be easily brought to bear on a lemon, so that all of the juice of the same may be extracted.

A further object of the invention is to provide a lemon-squeezer adapted to direct juice into a glass or other receptacle without spilling the same and capable of affording a convenient support for a glass.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a lemon-squeezer constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a horizontal sectional view. Fig. 4 is a vertical sectional view of the lower portion of the device, illustrating the manner of mounting the lower cup and the funnel. Fig. 5 is a detail perspective view of the glass-supporting frame.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a supporting frame or casing preferably composed of two longitudinal sections or halves and provided at the back, between its ends, with a clamp for securing the device to a counter or bar, as illustrated in Figs. 1 and 2 of the accompanying drawings. The clamp consists of upper and lower jaws 2 and 3, formed integral with the frame or casing, the lower jaw 3 being provided with a threaded perforation for the reception of a clamping-screw 4, which engages the lower face of the counter or bar or other suitable support to which the device is secured.

The sections or halves of the casing are suitably secured together and are hollowed out at their inner faces to provide a space or chamber 5 within the upper portion of the casing for the reception of a gear 6, which meshes with the teeth of a vertically-reciprocating plunger 7. The gear 6 is mounted on a horizontal shaft or pin 8, which has its ends journaled in bearing-openings of the sides of the casing, and one end of the pin or shaft is extended beyond the casing and squared for the reception of an operating-handle 9. The ends of the shaft or pin 8 are provided with heads which are secured in place by means of screws or other suitable fastening devices, and the operating-handle 9, which is arranged to swing vertically to raise and lower the plunger 7, is curved outward away from the casing, as clearly shown in Fig. 3 of the accompanying drawings.

The upper portion of the casing is provided with a tubular portion or housing 10, disposed vertically and receiving the plunger 7, which has the teeth 11 at the rear side in position to mesh with the teeth of the gear 6. The lower end of the plunger is reduced at 12 to receive an inverted cup 13, secured to the plunger by a screw 14 or other suitable fastening device and provided with a handle 15, whereby when it is in engagement with a lemon it may be rotated to assist in extracting the juice.

The central portion of the frame or casing 1 is cut away below the tubular portion or housing 10 and the chamber 5, and its lower portion is provided with a pair of forwardly-extending arms 16, consisting of curved side walls 17 and horizontal supporting-flanges 18 and adapted to hold a cup 19. The arms 16, which may be secured to the sides of the frame or casing 1 or formed integral therewith, as desired, conform to the configuration of the cup 19, which is stationary and cylindrical.

The lower stationary cup is provided with a central substantially cylindrical projection or post 20, arranged at the center of the cup and forming an intervening annular space between it and the walls of the cup, and the latter is provided at its bottom with an an-

nular series of apertures 21 for the discharge of the lemon-juice. The lemon or half of a lemon is placed upon the central post or projection 20 and squeezed between the same and the movable cup 13 of the plunger, the rotary motion of the cup or plunger-head 13 assisting in expelling the juice, and grooves 22 and 23 are provided in the engaging faces and walls of the cup 13 and the post or projection 20 in order to facilitate the flow of the juice. The juice is directed into a glass or other receptacle without waste by a funnel 24, consisting of a bowl provided at its upper edge with a horizontal annular flange 25, arranged on the horizontal flanges of the supporting-arms 16 and interposed between the same and the bottom of the stationary cup 19, which retains the funnel in place, the cup 19 being secured to the walls of the arms 16 by screws or other suitable fastening devices, as clearly shown in Fig. 1 of the accompanying drawings.

The device is provided at its bottom with a depending glass-supporting frame 26, which is detachably interlocked with hook-shaped projections 27 of the supporting-arms and the bottom of the frame or casing 1, the lower faces of the supporting-arms being flush with the lower edges of the sides or sections of the frame or casing and the whole constituting the bottom of the said frame or casing.

The hook-shaped projections 27 are located at the back and at opposite sides of the bottom of the device, and the glass-supporting frame 26, which is preferably constructed of a single piece of stout wire, consists of a base 28, a back or standard 29, and resilient arms 30, extending forward from the upper end of the back or standard and detachably interlocked with the hook-shaped projections at the sides of the bottom of the frame or casing 1. The base is circular and is formed by doubling the wire and bending it into the form of a ring. The wire is then twisted at the back of the ring to connect the same and is extended upward to form diverging sides of the back or standard and is then bent horizontally to form the top of the back or standard 29. The back or standard 29, which is substantially triangular, as clearly shown in Fig. 5 of the drawings, has its top 31 formed by extending each side across to the opposite side, and the wire is then twisted at 32 adjacent to the sides of the back or standard to connect the transverse portions. The resilient arms 30, which are arranged horizontally, are formed by extending the wire from the eyes or coils 32 and have their outer terminals bent inward to engage the hook-shaped projections 27. The glass-supporting frame is in convenient position to receive a glass, and it may be readily attached to and removed from the frame or casing 1.

The invention has the following advantages: The lemon-squeezer, which is simple, strong, and durable, is comparatively inexpensive in construction. It may be readily attached to a bar, counter, or similar support, and it is capable of convenient operation and of thoroughly extracting the juice from a lemon. The rotary movement of the upper cup or plunger-head assists in expelling the juice from a lemon, and by providing means for supporting a glass both hands of the operator are free for manipulating the device.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

1. In a device of the class described, the combination of a frame provided with a stationary lemon-receptacle, a plunger mounted in the frame and capable of vertical movement only and provided at one side with teeth, gearing located between the ends of the plunger and meshing with the teeth, a cup swiveled to the lower end of the plunger and capable of independent rotation, and a handle connected directly to the rotary cup, substantially as described.

2. In a device of the class described, the combination of a frame or casing, a plunger, means for operating the same, horizontal supporting-arms arranged below the plunger, a stationary lemon-receptacle carried by the arms, and a depending funnel located beneath said receptacle and provided with a horizontal flange interposed between the same and the arms, substantially as described.

3. In a device of the class described, the combination of a frame or casing, a plunger, a receptacle located beneath the plunger, horizontal supporting-arms extending from the frame or casing and consisting of supporting-flanges receiving the receptacle, and side walls conforming to the configuration of the same, and a funnel located beneath the receptacle and provided at its top with a flange arranged on the supporting-flanges of the arms and retained thereon by the receptacle, substantially as described.

4. A device of the class described having lemon-squeezing mechanism and provided below the same with outwardly-extending horizontal supporting-arms, combined with a glass-supporting frame having horizontal arms detachably interlocked with the supporting-arms and adapted to be sprung into and out of engagement with the same, substantially as described.

5. The combination with a lemon-squeezing device provided at its bottom with a series of lugs or projections, of a glass-supporting frame depending from and interlocked with the projections or lugs, substantially as described.

6. The combination with a lemon-squeezer, of a glass-supporting frame comprising a horizontal base, a standard extending upward from the base, and horizontal arms extending from the top of the standard and detachably interlocked with the lemon-squeezer, substantially as described.

7. The combination with a lemon-squeezer provided at its bottom with a series of hook-shaped lugs, of a glass-supporting frame provided at its top with resilient arms interlocked with the hook-shaped lugs, substantially as described.

8. In a device of the class described, the combination with a casing, and a glass-supporting frame constructed of a single piece of material doubled between its ends and bent to form a base, said glass-supporting frame consisting of the said base, a substantially triangular standard, the sides of the standard being extended across the same at the top thereof to form a double connecting portion, and coiled around the same, and arms extending forward from the top of the standard, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM WHITE.

Witnesses:
JNO. R. THOMAS,
J. T. CRAUMER.