

No. 633,247.

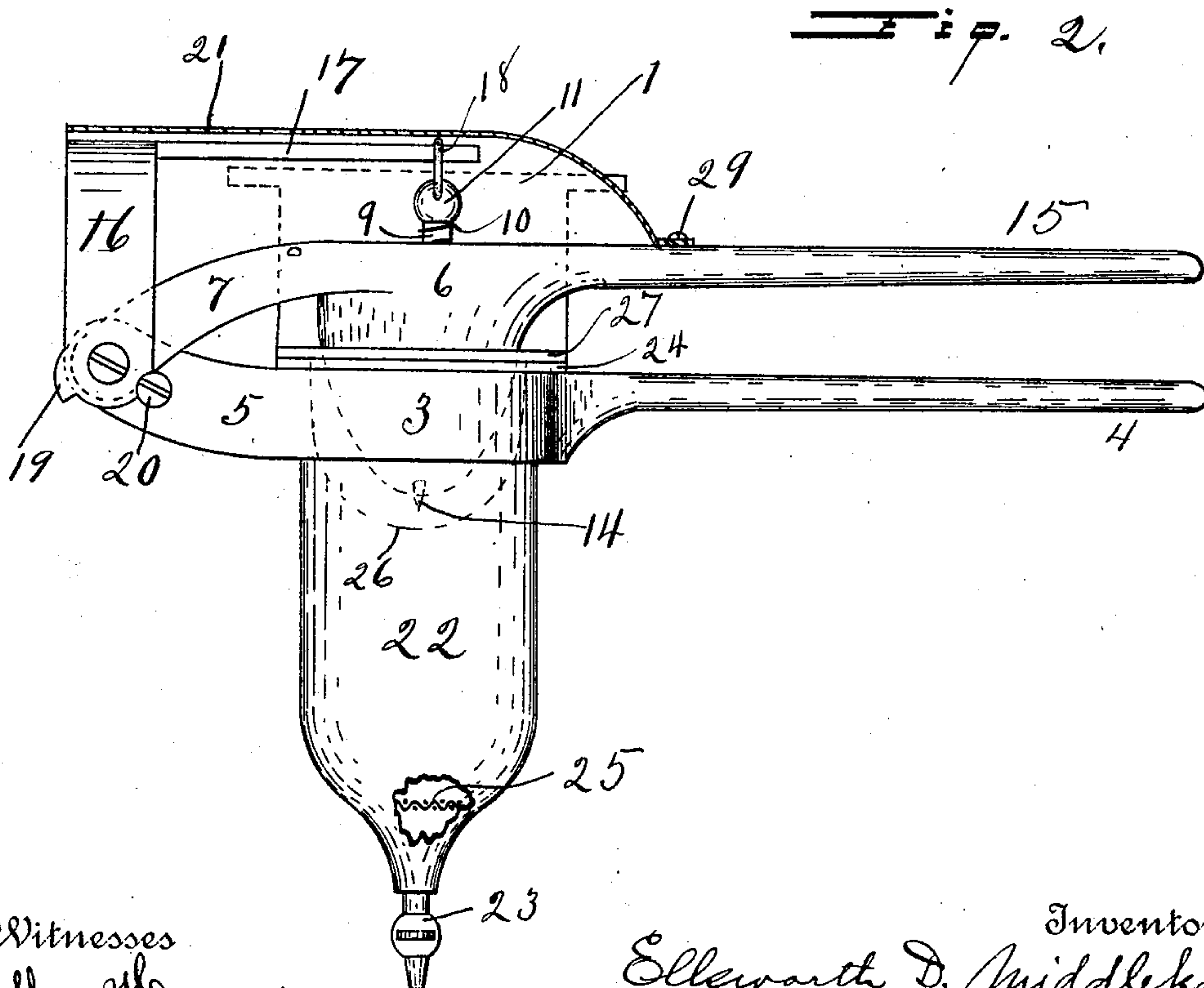
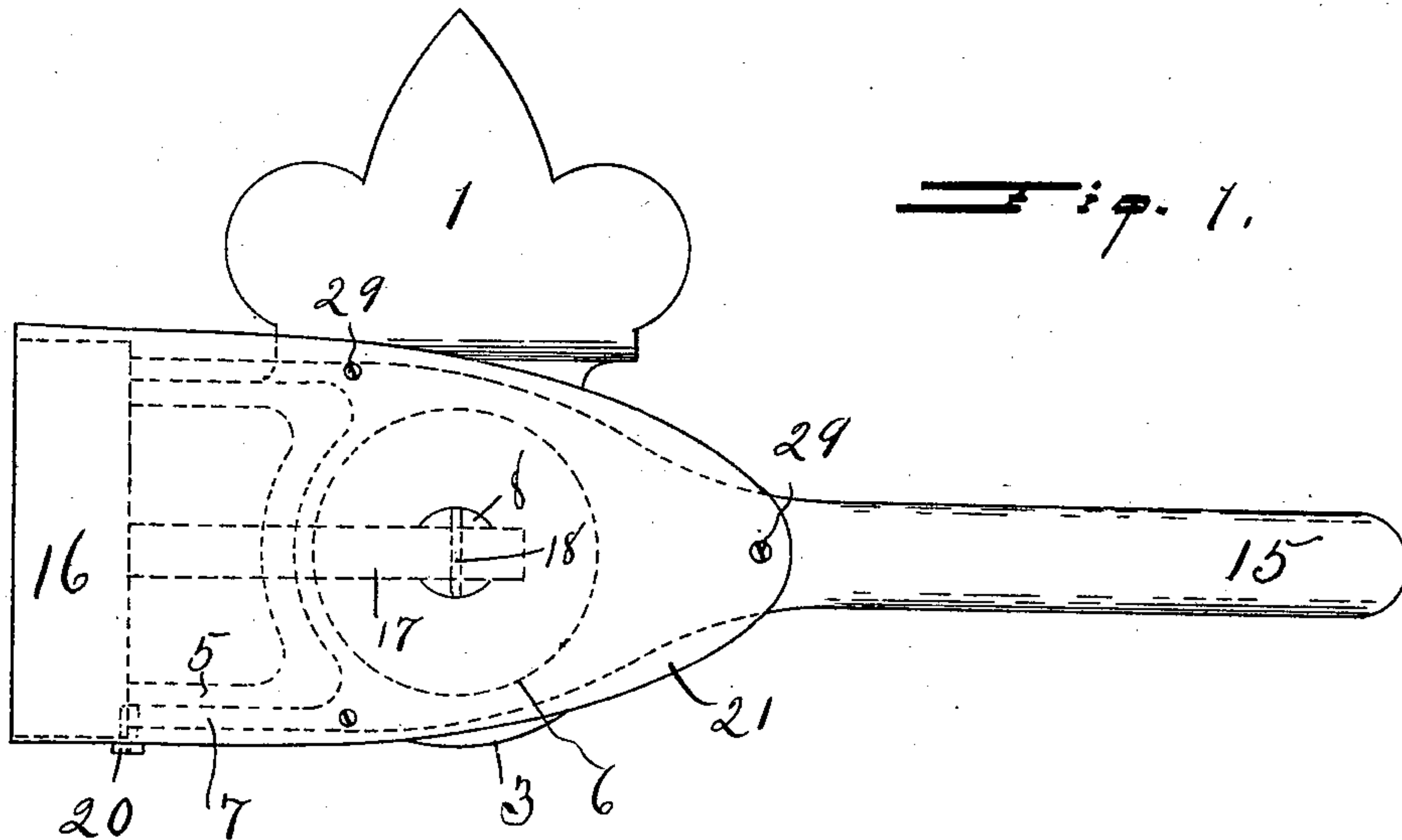
Patented Sept. 19, 1899.

E. D. MIDDLEKAUFF.
LEMON SQUEEZER.

(Application filed Dec. 16, 1898.)

(No Model.)

2 Sheets—Sheet 1.



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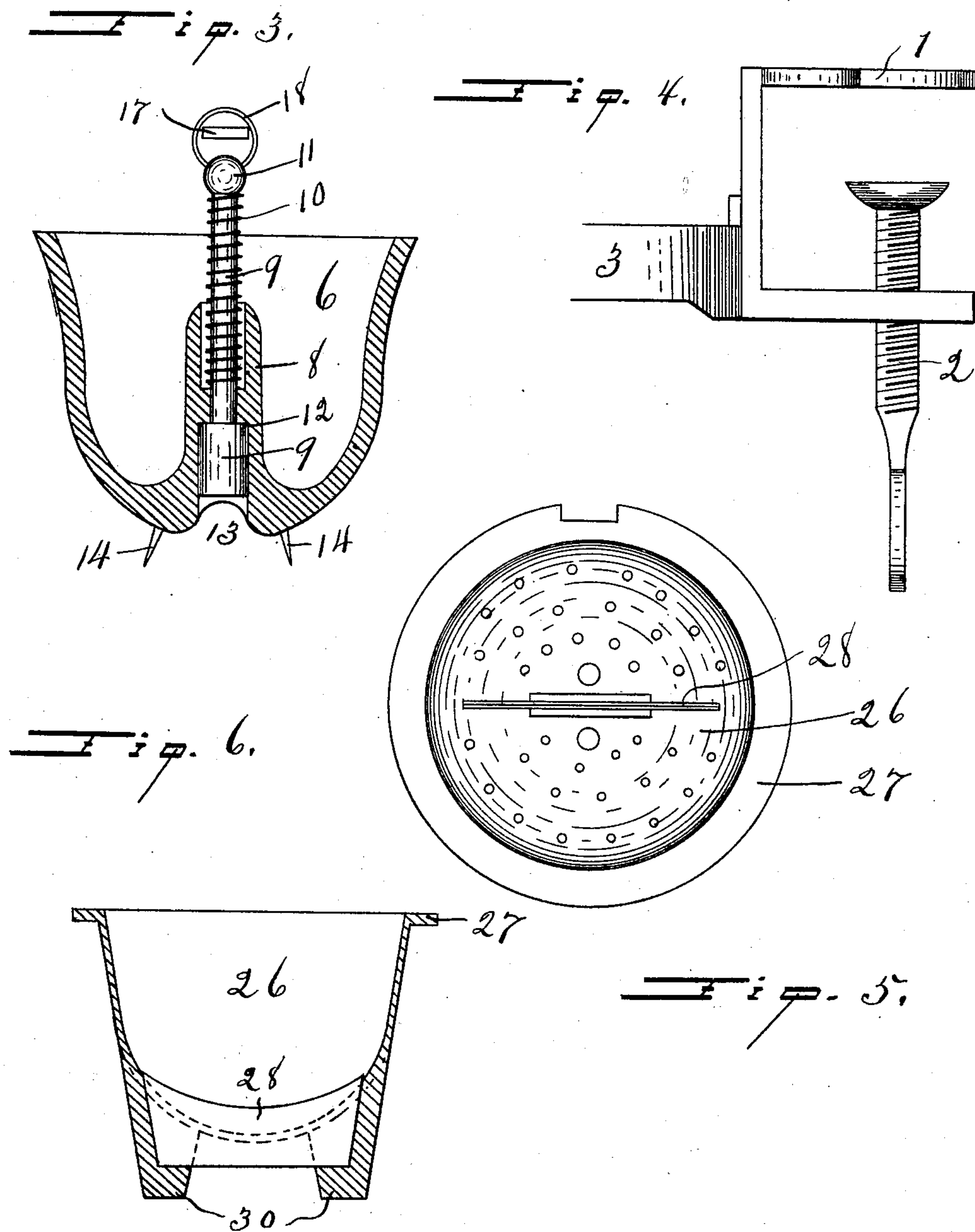
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UNITED STATES PATENT OFFICE.

ELLSWORTH D. MIDDLEKAUFF, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR
TO WILLIAM D. BOWEN, OF FRESNO, CALIFORNIA.

LEMON-SQUEEZER.

SPECIFICATION forming part of Letters Patent No. 633,247, dated September 19, 1899.

Application filed December 16, 1898. Serial No. 699,442. (No model.)

To all whom it may concern:

Be it known that I, ELLSWORTH D. MIDDLEKAUFF, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented certain new and useful Improvements in Lemon-Squeezers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in that class of lemon-squeezers which will automatically cut and squeeze the juice from the lemon and remove the pulp at one operation; and it consists in the peculiar construction, novel combination, and adaptation of parts hereinafter described, and particularly pointed out in the claims hereunto annexed, reference being had to the accompanying drawings, in which—

Figure 1 is a top view of my improved lemon-squeezer. Fig. 2 is a side elevation of the same. Fig. 3 is a cross-sectional view of the squeezer. Fig. 4 is a side elevation of the clamp for attaching to a table or counter. Fig. 5 is a top view of the perforated squeezer-cup with the knife located therein. Fig. 6 is a sectional view of the same.

Similar figures of reference indicate corresponding parts in the several views.

1 represents a clamp which may be attached to a table, stand, or counter by means of a thumb-screw 2, which is adapted to impinge upon the under side of said table, stand, or counter. A ring 3 is rigidly attached to the front side of the said clamp 1 in a horizontal position. A suitable handle 4 is rigidly attached to one side of the ring 3 and adapted to extend parallel with the side of the table, stand, or counter. To the opposite side of the ring 3 from the handle 4 two hinge-arms 5 are rigidly attached.

6 represents a hemispherical squeezer which is provided with arms 7 and adapted to swing over the ring 3, said arms 7 being pivotally attached to the arms 5 at the free ends thereof. Such squeezer 6 is hollow, with a circu-

lar stem 8 elevating from the center thereof, within which stem 8 a plunger 9 is inserted. The said plunger 9 is maintained in elevated position by means of a spiral spring 10, which comprehends the said plunger 9 and engages with the top of the stem 8 and a knob 11, which is detachably attached to the top of said plunger 9. The lower end of the plunger 9 is provided with a shoulder 12, which engages with a seat therefor in the stem 8 for the purpose of maintaining said plunger in position in said stem 8. The bottom of said squeezer 6 has a groove 13 in the same to accommodate the knife, and on either side of said groove 13 a pin 14 is rigidly inserted for the purpose as will be shown. A handle 15 is rigidly attached to the squeezer 6 for the purpose of operating the same. A yoke 16 is pivotally attached to the joints of the arms 5 and 7 and is provided with a lever 17, which is rigidly attached to the center thereof and extends longitudinally over the squeezer 6 and engages with a ring 18, which is rigidly attached to the knob 11. A lug 19 is provided on one side of one end of the yoke 16 and is adapted to engage with a screw or pin 20, which is inserted at a suitable point in the side of one of the arms 5. A cover 21, of suitable material, preferably tin, is inserted over the squeezer and its attendant parts and attached thereon by means of screws 29, which are inserted in holes in the arms 7 and handle 15 therefor.

A reservoir 22, similar in shape to a funnel and having a stop-cock 23 at its lower end, is adapted to be inserted in the ring 3 and is supported by a flange 24 on the top of the same, which flange 24 engages with the top of said ring 3. The said reservoir 22 is provided with a screen 25, which is located near the bottom thereof and rigidly attached to the sides of the same. A squeezing-cup 26 is inserted in the top of the reservoir 22, which cup 26 has a flange 27, similar to and adapted to rest on the flange 24. Said cup 26 has its sides perforated for the purpose of allowing the juice to pass into the reservoir 22 when squeezed from the lemon. The cup 26 has two lugs 30 depending from the sides near the bottom thereof, such lugs and the bottom of said cup having a slot therein, thus forming

a seat in which a knife 28 rests, said knife extending slightly above the bottom of the cup 26.

The mode of operating my improved lemon-squeezer is as follows: The clamp 1 is rigidly attached to a table, counter, or stand by means of the thumb-screw 2. The reservoir and squeezing-cup, with its knife in position therein, are placed into position in the ring 3, whereupon the handle 15, carrying with it the squeezer 6, is raised and the lemon or lime is placed in the squeezing-cup 26. The handle 15 is then pressed downwardly, engaging the squeezer 6 with the lemon or lime, which is pressed against the knife 28, thereby cutting the same in twain, and, as will be seen, the juice is extracted therefrom and introduced into the reservoir to be used as required by means of the stop-cock 23. As the squeezer 6 is pressed downwardly upon the lemon the pins 14 fasten themselves into the rind thereof, and as the handle 15 and squeezer 6 are raised the said rind and pulp are lifted out of the cup 26, and when the said handle and squeezer are thrown back the lug 19 engages with the pin 20, thereby stopping the rearward progress of the lever 17 and yoke 16, which, as the lever 15 is pressed still farther, presses the lever 17 in engagement with the plunger 9, which when forced down disengages the rind and pulp from the pins 14, and the said rind is deposited in any receptacle provided therefor. Another lemon is then placed in the squeezing-cup 26 and the *modus operandi* repeated. When the lever 15 is pressed forward, the spring 10 forces the plunger 9 up, thereby exposing the pins 14.

When it is desired to wash the different parts, the cup 26 is removed, and likewise the reservoir 22. The knife 28 also may be removed from the slotted lugs 30, and the several parts may be replaced at will.

The handle 4 is adapted to assist in the pressure of the squeezer 6.

I am aware that lemon-squeezers have been made which comprise a squeezing-cup attached to a table, stand, or counter and a squeezer hinged thereto, and therefore those features I do not claim, broadly; but

What I do claim as new, and desire to secure by Letters Patent, is—

1. In a lemon-squeezer of the class described, the combination with a suitable clamp attached to a table, desk or counter, of a ring rigidly attached to said clamp, a squeezer suitably hinged to said ring, and having a suitable handle attached thereto, pins attached in the bottom of said squeezer, a plunger seated in an opening in said squeezer, the

yoke 16 suitably hinged to the ring aforesaid, and provided with the lug 19, the lever 17 rigidly attached to the said yoke carried by the ring and adapted to engage with the said plunger, the pin 20 adapted to engage with the lug 19 and suitable means for holding the lemon, all arranged and operating substantially as shown and described.

2. In a lemon-squeezer of the class described, a pulp-extractor composed essentially of a ring, the pin 20 carried by the ring the yoke 16 connected in a hinged manner with the ring and having the lug 19, the lever 17 rigidly attached to said yoke, the plunger 9 seated in a squeezer and adapted to be engaged by the lever 17, the cap or nut 11, provided with the ring 18 attached to the top of said plunger 8, and the spiral spring 10, surrounding said plunger 8, in combination with the squeezer having the brads or pins in the bottom thereof, and suitable means of holding the lemon, all arranged and operating substantially as shown and described, and for the purposes set forth.

3. In a lemon-squeezer of the class described, the combination with a suitable clamp attached to a table or counter, and a ring rigidly attached to said clamp, of the arms 5 extending from the said ring, the squeezer 6 provided with the handle 15 and hinged to the arms 5, the pins 14 inserted in the bottom of said squeezer 6, the plunger 9 seated in an opening in the said squeezer, the cap or nut 11 inserted on the end of said plunger and provided with the ring 18, the spiral spring 10 comprehending the said plunger, the lever 17 adapted to engage with the ring 18 and rigidly attached to the yoke 16, the said yoke 16 provided with the lug 19 and pivotally attached to the arms 5, the pin 20 inserted in one of the arms 5 and adapted to engage with the lug 19, the cover 21 suitably attached over the squeezer 6, the reservoir 22 provided with the flange 24 and inserted in the ring 3, the screen 25 located in said reservoir, the stop-cock 23 inserted in the lower end of said reservoir, the squeezing-cup 26 having the flange 27 inserted in the said reservoir, the slotted lugs 30 depending from the said cup 26, and the knife 28 inserted in the cup 26 and resting in the lugs 30, all arranged and operating substantially as shown and described and for the purposes set forth.

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

ELLSWORTH D. MIDDLEKAUFF.

Witnesses:

N. H. SCOTT,
J. AVIS BRIGHT.