No. 612,362.

Patented Oct. 11, 1898.

E. D. MIDDLEKAUFF.

LEMON SQUEEZER.

(Application filed Dec. 22, 1897.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

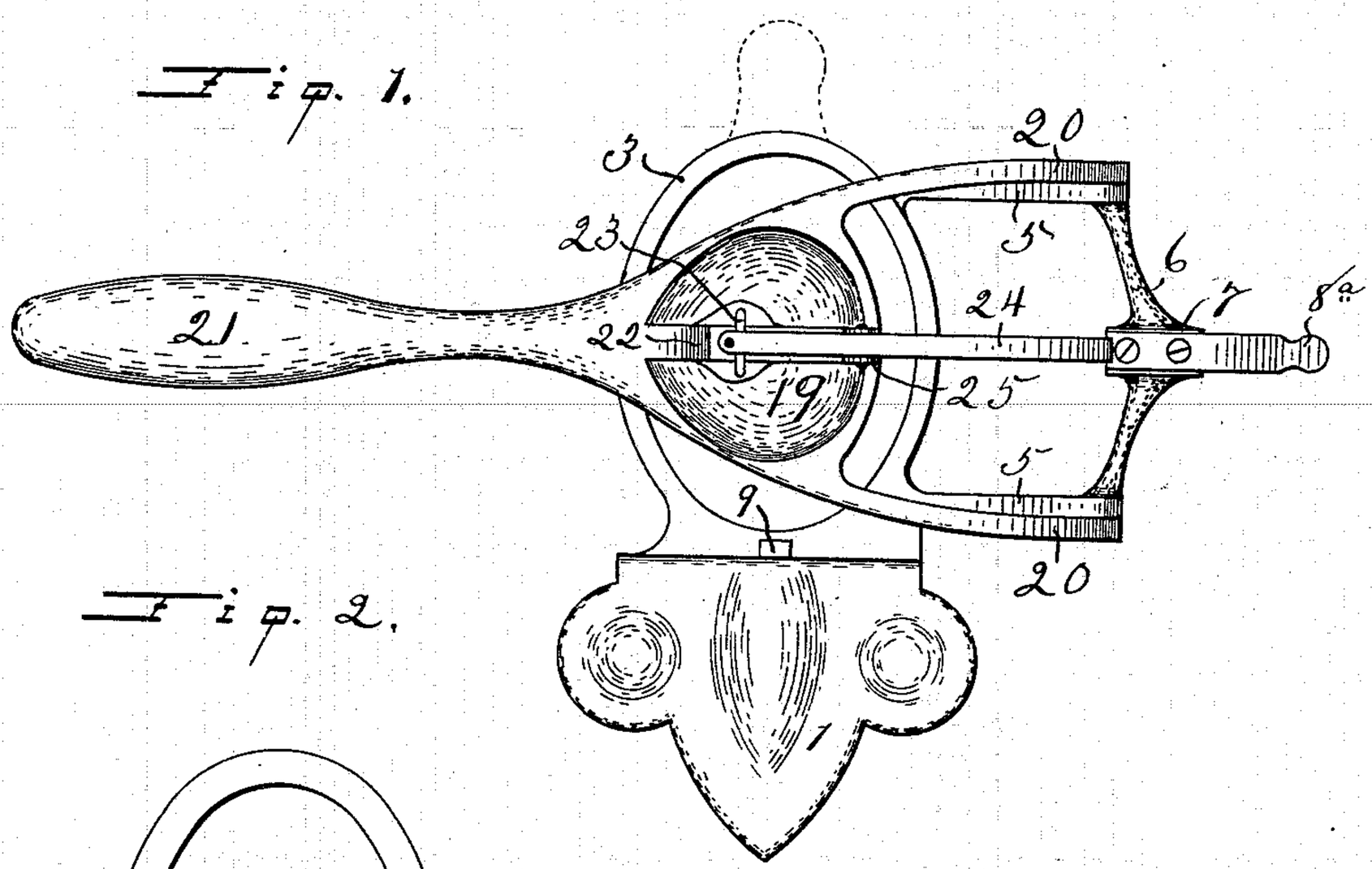


Fig. 2.

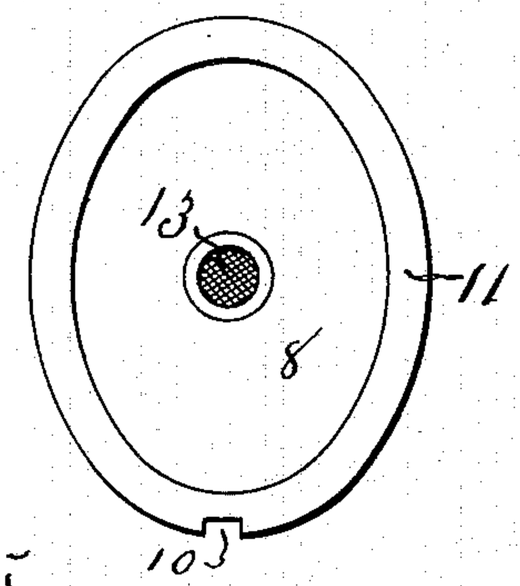


Fig. 4.

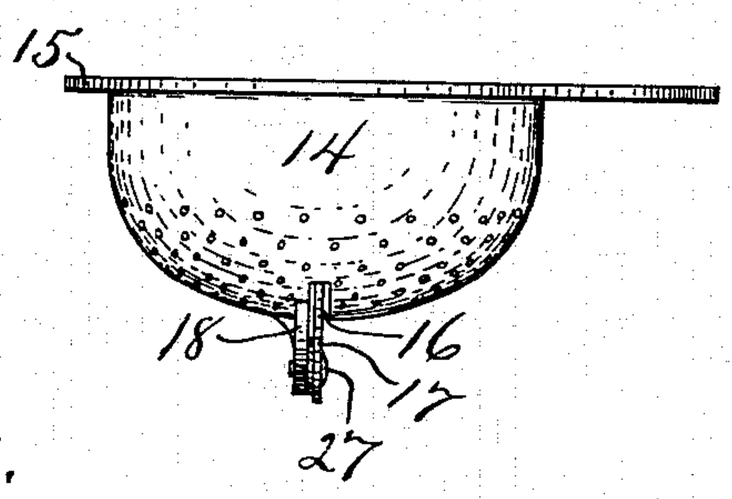
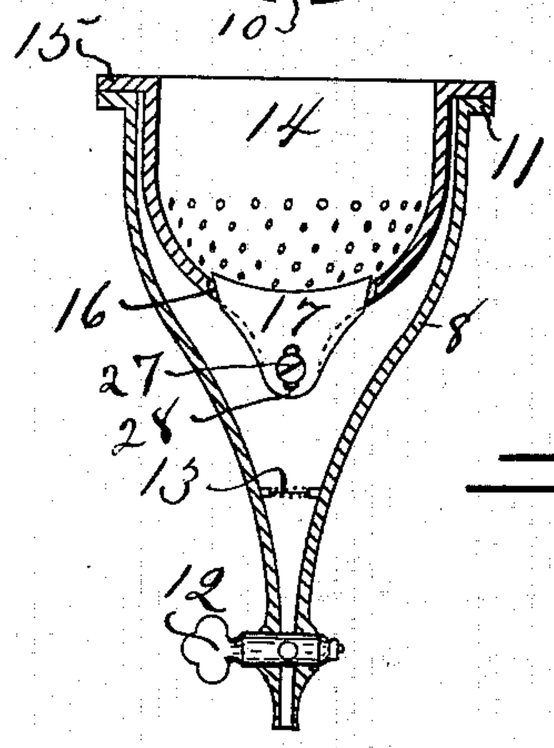


Fig. 3.



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2 Sheets—Sheet 2.

Fig. 6.

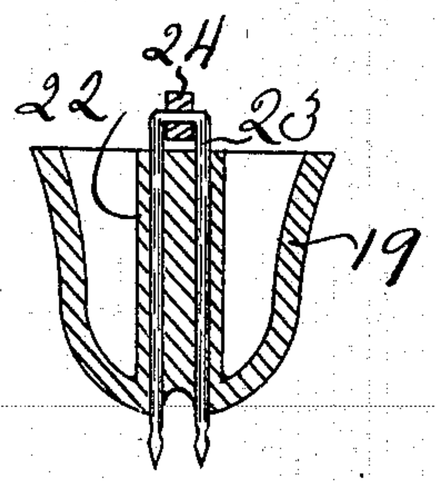

Fig. 7.

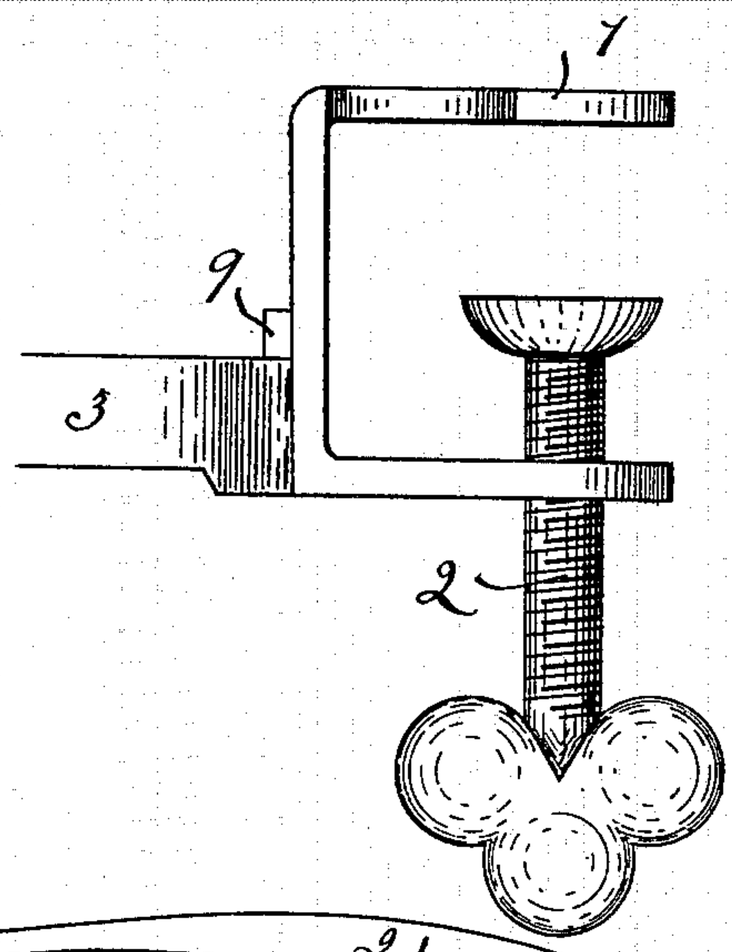

Fig. 5.

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UNITED STATES PATENT OFFICE.

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LEMON-SQUEEZER.

SPECIFICATION forming part of Letters Patent No. 612,362, dated October 11, 1898.

Application filed December 22, 1897. Serial No. 663,271. (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 Automatic 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 lemon-squeezers such as will cut, squeeze the juice from, and remove the pulp of lemons; and it consists in a clamp attached to a table or counter, a ring rigidly attached horizontally thereto, a reservoir loosely mounted in such ring, a squeezing-cup mounted therein, a squeezer having a suitable handle attached thereto hinged to the ring, and such other devices and combination of devices as will be more fully set forth in this specification and specifically pointed out in the claims hereunto annexed, which form a part hereof, reference being had to the accompanying drawings, in which—

Figure 1 is a top plan view of my improved lemon-squeezer having reservoir and squeezing-cup removed therefrom. Fig. 2 is a plan view of the reservoir, showing the strainer therein. Fig. 3 is a vertical sectional view of the reservoir and squeezing-cup in position together. Fig. 4 is a side elevation of the squeezing-cup. Fig. 5 is a side elevation of my lemon-squeezer with a part broken away and in section and having the reservoir shown in dotted lines. Fig. 6 is a vertical cross-section of the squeezer, showing the pulp-extractor. Fig. 7 is an elevation of the clamp and attaching thumb-screw.

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

1 represents a clamp which is rigidly attached to a table or counter by means of a thumb-screw 2, which is adapted to impinge upon the under side of the said table or counter. A ring 3 of suitable dimensions is rigidly attached to the front side of the clamp 1, such ring being adapted to project horizontally therefrom. A handle 4 is rigidly attached at and to one side of the ring 3, such handle 4 being adapted to extend parallel with the front edge of the table or counter. At the opposite side of the ring 3 and on either side of the center thereof two hinge-arms 5 are rigidly attached and are connected by a bridge 6, having a lug 7 midway between the arms 5, to which lug 7 a trip-arm 8^a, having an upward curve, is rigidly attached. A funnel-shaped reservoir 8 is inserted in the ring 3 and is prevented from turning by means of a lug 9, located on the side of the clamp 1, which is adapted to engage with a notch 10 in the side of a flange 11 for that purpose, such flange 11 being adapted to engage with the top of the ring 3. Such reservoir 8 is provided with a stop-cock 12 near the lower end of the same. A screen or strainer 13 is rigidly located immediately above the stop-cock 12 for the purpose of removing seeds, pulp, and any other matter or undesired substance.

A squeezing-cup 14 is inserted in the top of the reservoir 8, which cup 14 has a flange 15, similar to and adapted to rest on the flange 11. Such cup 14 has its sides perforated for the purpose of allowing the juice to pass into the reservoir 8, and said cup 14 is also provided with a slot 16 transversely in the bottom of the same, through which a knife 17 protrudes slightly above the bottom thereof, and such knife 17 is adjustably attached to a lug 18, which extends below the bottom of the said cup 14 for that purpose, by means of a screw 27, which is inserted in a slot 28 in the said knife and adapted to engage with the lug 18. A semiround squeezer 19 is hinged by means of arms 20 to the arms 5 and adapted to swing vertically by means of an operating-handle 21, which is attached to the side of the squeezer 19, opposite to the arms 20 and above the handle 4. The said squeezer 19 is hollow and is provided with a web 22 longitudinally therein, which web 22 has two vertical openings therein into which two pulp-extractors 23 are inserted, such extractors having arrow-headed points for the purpose of engaging the said pulp. The pulp-extractors 23 are attached together at the top and are adapted to engage with one

end of a detaching-lever 24, which is suitably hinged on the web 22 by means of lugs 25, which are mounted thereon. The extractors 23 are maintained in a depressed position by means of a spring 26, which is rigidly attached to the web 22 and adapted to engage with the outer end of the lever 24. A groove in the bottom of the squeezer 19 is adapted to accommodate the knife when such squeezer is depressed.

The mode of operating my improved lemon-squeezer is as follows: The clamp 1 is rigidly attached to a table or counter by means of the thumb-screw 2. The reservoir and squeezing-cup are placed into position in the ring 3, whereupon the handle 21 and squeezer 19 are raised, as shown in dotted lines, Fig. 5. The lemon is then introduced into the squeezing-cup 14 and the handle 21 pressed down, whereupon the knife 17 cuts the lemon in twain, and, as will be seen, the juice is extracted therefrom and introduced into the reservoir. As the squeezer 19 is pressed downwardly upon the lemon the arrow-headed pulp-extractors 23 fasten themselves in the rind thereof, and as the handle 21 and squeezer 19 are raised the said pulp is lifted out of the cup 14, and when the same is to one side of the cup 14 the lever 24 engages with the trip-arm 8, which presses the loose end downwardly and releases the extractors 23, whereupon the pulp drops down out of the way. Another lemon is then introduced into the cup 14, and the *modus operandi* is repeated. The juice is drawn off by means of the stop-cock as required.

I am aware that lemon-squeezers have been constructed which comprise a squeezing-cup attached to a table or counter and a squeezer hinged thereto, and I therefore do not claim that 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 clamp rigidly attached to a table or counter and having a ring rigidly attached horizontally thereto of the arms 5 rigidly attached to the said ring, the bridge 6 having the lug 7 thereon attached to the said arms 5, the trip-arm 8^a attached to the lug 7, the squeezer 19 hinged to the arms 5 by means of the arms 20, the operating-handle 21 attached to the squeezer 19 the web 22 arranged longitudinally in the squeezer 19, the pulp-extractors 23 inserted vertically in the said web 22, the detaching-lever 24 adapted to engage with the pulp-extractors 23, the spring 26 adapted to engage with the lever 24, the reservoir 8 having the stop-cock 12 attached thereto, such reservoir being provided with the flange 11 at the top thereof, which rests on the ring 3, the squeezing-cup 14 having the flange 15 and adapted to rest within the reservoir 8, the knife 17 attached to the lug 18 and adapted to extend through the slot 16, all arranged and operating substantially as shown and described.

2. In a lemon-squeezer, the combination of a lemon-receiving cup, a trip 8^a, a squeezer proper, a reciprocatory pulp-extractor arranged in the same, and a spring-pressed lever arranged on the squeezer proper, said lever being connected with the pulp-extractor and arranged to engage the trip, substantially as specified.

3. In a lemon-squeezer of the class described the combination with a suitable squeezing-cup attached to a suitable support of a squeezer suitably hinged to the said cup, pulp-extractors inserted vertically in the said squeezer in openings therefor, a detaching-lever fulcrumed on the edge of the squeezer and engaging with the pulp-extractors, a spring attached to the squeezer and adapted to engage with the lever aforesaid, the trip-arm 8^a, attached to the bridge and adapted to engage the detaching-lever, the bridge attached to the squeezing-cup and a suitable operating-handle attached to the squeezer, all arranged and operating substantially as shown and for the purposes specified.

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

ELLSWORTH D. MIDDLEKAUFF.

Witnesses:
N. M. ANDERSON,
E. L. ARNEST.