

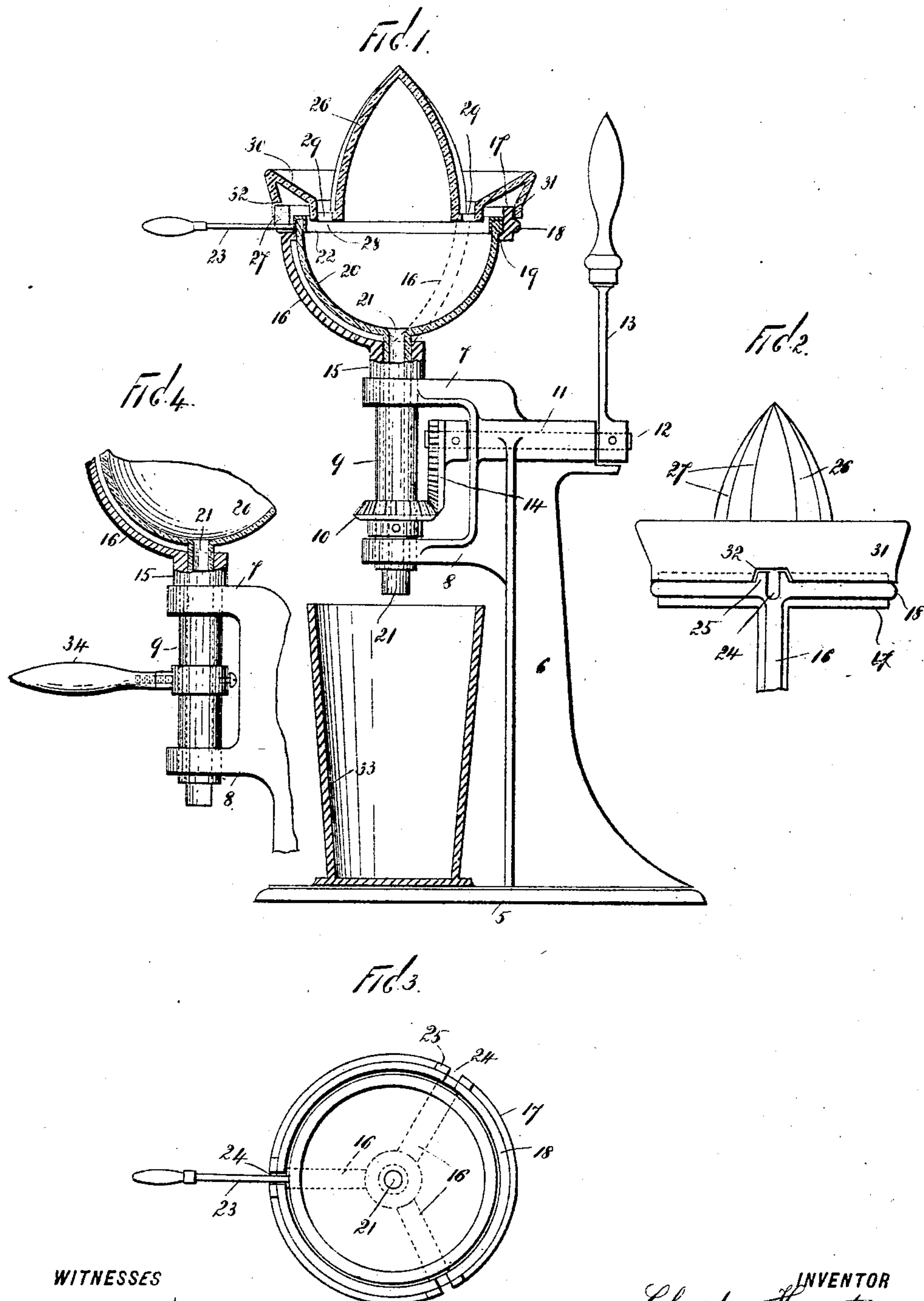
No. 625,507.

Patented May 23, 1899.

C. HUNT.
LEMON SQUEEZER.

(Application filed Oct. 20, 1898.)

(No Model.)



WITNESSES

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LEMON-SQUEEZER.

SPECIFICATION forming part of Letters Patent No. 625,507, dated May 23, 1899.

Application filed October 20, 1898. Serial No. 694,139. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HUNT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Extracting the Juice of Lemons and other Fruits, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for extracting the juice of lemons, oranges, and similar fruit; and the object thereof is to provide an improved device of this class which is simple in construction and operation and also comparatively inexpensive.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a sectional side view of the apparatus which I employ; Fig. 2, a side elevation of a detail of said apparatus. Fig. 3 is a plan view of a detail of the construction, and Fig. 4 a side view of a detail showing a modified form of construction.

In the drawings forming part of this specification the separate parts of my improvement are designated by the same numerals of reference in each of the views, and in the practice of my invention as shown in the drawings I provide a frame or support comprising a base 5, having a standard 6, the upper end of which is provided with two parallel projecting arms 7 and 8, in which is mounted a vertical tubular sleeve 9, on the lower end of which, above the lower arm 8, is a beveled gear-wheel 10. The upper portion of the standard 6 is also provided with a tubular bearing 11, in which is mounted a shaft 12, provided with a crank 13 at its outer end and at its inner end with a segmental gear 14, which occupies the space between the arms 7 and 8 and which operates in connection with the gear-wheel 10.

The upper end of the sleeve 9 is provided with an annular shoulder 15, which rests on the upper arm 7, and connected with the upper end of said sleeve are radial and segmental arms 16, with the upper end of which is connected a circular ring or band 17, having on its outer surface an annular bead 18

and at its lower edge an inwardly-directed annular flange 19. I also provide a semiglobular cup 20, which is preferably composed of glass or similar material and which is provided centrally of its bottom with a downwardly-directed tube 21, which passes through the sleeve 9, and the semiglobular cup 20 is provided at its upper edge with a metal band 22, which is U-shaped in cross-section and secured to said cup in any desired manner, and said band is provided with a handle 23, by which the said globular cup is manipulated, and said handle when the cup is in position passes through a notch or recess 24, formed in an upwardly-directed shoulder or projection 25, formed on the ring or band 17. I also provide a conical-shaped device 26, composed of glass or similar material and provided with vertical ribs 27 and a narrow annular base 28, provided with perforations 29, and said annular base is provided with an upwardly and outwardly directed rim 30, the outer edge of which is provided with a downwardly and inwardly directed flange 31, which is adapted to rest on the annular bead 18 of the ring or band 17, and said flange 31 is provided with a notch or recess 32, adapted to receive the upwardly-directed shoulder or projection 25 on the annular ring or band 17. This construction prevents the cone-shaped device 26 from turning on said ring or band, and by means of the annular base 28 of said cone-shaped device and the upwardly and outwardly directed rim 30 an annular cup-shaped receptacle is formed around the base of said cone-shaped device, into which in the operation of the device the juice from the lemon or other fruit flows and from which said juice flows through the perforations 29 into the globular cup 20, from which it passes through the tube 21 and flows into a goblet 33, which is placed on the base 5 to receive the same.

The gearing for rotating the sleeve 9 (shown in Fig. 1) is not absolutely necessary, and in place thereof I may secure a handle or lever directly to said sleeve, as shown at 34 in Fig. 4.

The operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof. The lemon or orange is divided, preferably trans-

versely of its longitudinal axis, and one-half thereof is pressed down over the conical device 26 by the hand and pressure is applied thereto, and at the same time the shaft 12 is
 5 oscillated by moving the handle 13 back and forth. This operation of the shaft 12 operates the segmental gear 14, which operates the beveled gear 10 and causes the sleeve 9 and all the parts connected therewith, including the globular cup 20 and the cone-shaped
 10 device 26, to also rotate or oscillate in a horizontal plane, and this operation extracts the juice from the lemon or orange, as will be readily understood, and said juice flows into
 15 the goblet 33, while the seeds and pulp are retained in the annular cup-shaped receptacle around the base of the cone-shaped device 26.

The segmental arms 16 and the ring or band 17 constitute a cup-shaped support for the
 20 semiglobular cup 20, and the ring or band 22 on the upper edge of the cup 20 rests on the inwardly-directed flange 19 of the bottom of the ring or band 17 and supports the cup 20 independent of the bottom of the arms 16 and
 25 the upper end of the sleeve 9, and by means of this construction the danger of breaking said cup and the tube 21, connected with the bottom thereof, in the operation of the device is reduced to a minimum.

30 It will thus be seen that I provide a simple and effective device for the purpose herein described and one which in addition to extracting the juice also strains the same and separates the seed and pulp therefrom.

35 The ring or band 17 may be provided with any desired number of the upwardly-directed shoulders or projections 25 and the downwardly and inwardly directed flange 31 with a corresponding number of the notches or re-
 40 cess 32, and other changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

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

1. A device of the class herein described, comprising a frame or support provided at its upper end with two parallel projecting arms,
 50 a sleeve mounted in said arms and adapted to turn therein, a beveled gear-wheel mounted on said sleeve, a shaft passing through the side of the frame or support between said arms, a gear connected with the inner end of said
 55 shaft and adapted to operate in connection with the beveled gear on said sleeve, a cup-shaped support connected with the upper end of said sleeve, a cup mounted in said support and adapted to turn therewith, said cup being
 60 provided centrally of its bottom with a tube which passes downwardly through said sleeve, and a cone-shaped device mounted on the support of said cup and provided with an annular cup-shaped receptacle around the base
 65 thereof, in the bottom of which are perforations, substantially as shown and described.

2. A device of the class herein described,

comprising a suitable frame or support, a vertically-arranged rotatable sleeve mounted in said frame or support, a cup mounted above
 70 said rotatable sleeve and adapted to turn therewith, said cup being provided with a tube at its bottom which projects downwardly through said sleeve, and a cone-shaped device mounted over said cup and provided
 75 with an annular cup-shaped receptacle at its base, the bottom of which is perforated, substantially as shown and described.

3. In a device of the class herein described, the combination with a suitable support pro-
 80 vided with a vertically-arranged rotatable sleeve, of a cup mounted over said sleeve and adapted to rotate therewith, said cup being provided with a tube which projects downwardly through said sleeve, and a cone-
 85 shaped device mounted over said cup and adapted to rotate therewith, said cone-shaped device being provided with an annular cup-shaped receptacle around the base thereof, the bottom of which is perforated, and said
 90 cone-shaped device being also provided with vertical ribs, substantially as shown and described.

4. A device of the class herein described, comprising a frame or support provided at its
 95 upper end with two parallel projecting arms, a sleeve mounted in said arms and adapted to turn therein, a beveled gear-wheel mounted on said sleeve, a shaft passing through the side of the frame or support between said
 100 arms, a gear connected with the inner end of said shaft and adapted to operate in connection with the beveled gear on said sleeve, a cup-shaped support connected with the upper end of said sleeve, a cup mounted in said
 105 support and adapted to turn therewith, said cup being provided centrally of its bottom with a tube which passes downwardly through said sleeve, and a cone-shaped device mounted on the support of said cup and provided
 110 with an annular cup-shaped receptacle around the base thereof, in the bottom of which are perforations, said cone-shaped device being provided with vertical ribs, and said cup being provided with a handle which
 115 is adapted to enter a notch or recess in the top of said cup-shaped support, substantially as shown and described.

5. A device of the class herein described, comprising a base, an upright support con-
 120 nected therewith, parallel projecting arms connected with the upper end of said support, a vertical sleeve mounted in said arms and adapted to turn therein, a beveled gear-wheel connected with said sleeve, a shaft mounted
 125 in said support between said arms and provided with a segmental gear which is adapted to operate in connection with said beveled gear-wheel, a cup-shaped support connected with the upper end of said sleeve, a cup mount-
 130 ed therein and provided at its bottom with a tube which passes downwardly through said sleeve, and a conical device mounted on said cup-shaped support and provided with an an-

nular cup-shaped receptacle around the base thereof, the bottom of which is perforated, said conical device being provided with vertical ribs, substantially as shown and described.

5 6. A device of the class herein described, comprising a suitable support provided at its upper end with parallel projecting arms, a sleeve mounted in said arms and adapted to turn therein, means for turning said sleeve
10 a cup-shaped support connected with the upper end of said sleeve, a cup mounted in said support and provided with a tube which passes downwardly through said sleeve, a cone-shaped device mounted on said cup-shaped support and provided with an annular
15 cup-shaped receptacle around the base thereof, the bottom of which is perforated, substantially as shown and described.

7. A device of the class herein described,
20 comprising a suitable support provided at its upper end with parallel projecting arms, a sleeve mounted vertically in said arms and adapted to turn therein, means for rotating said sleeve, a cup-shaped support connected
25 with the upper end of said sleeve, a cup mounted in said support, a cone-shaped device mounted on said support over said cup and provided around its base with an annular cup-shaped receptacle the bottom of which
30 is perforated, and said support and said cup together with said cone-shaped device being adapted to rotate with said sleeve, substantially as shown and described.

8. In a device of the class herein described,
35 a frame or support provided with vertically-arranged bearings, a sleeve mounted vertically in said bearings and provided at its upper end with a support, means for rotating said sleeve and said support, a cup-shaped

receptacle mounted in said support and provided with a downwardly-directed tube which passes into said sleeve, and a conical device mounted over said support and adapted to turn therewith, and provided around its base with an annular receptacle having a perforated bottom, substantially as shown and described.

9. A device of the class herein described provided with a vertically-supported rotatable sleeve, a support connected with the upper end of said sleeve and adapted to rotate therewith, a cup mounted in said support and provided with a tube which passes downwardly through said sleeve, and a cone-shaped device mounted over said cup, and provided with an annular perforated base, substantially as shown and described.

10. A device of the class herein described, provided with a vertically-supported rotatable sleeve, a receptacle mounted over said sleeve and adapted to rotate therewith, and the bottom of which is open and provided with a tube located in said sleeve, and a conical device mounted over said receptacle and adapted to rotate therewith, said conical device being provided around its base with an annular cup-shaped receptacle the bottom of which is perforated, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 17th day of October, 1898.

CHARLES HUNT.

Witnesses:

CHAS. H. PILE,
S. NITTENBERGER.