

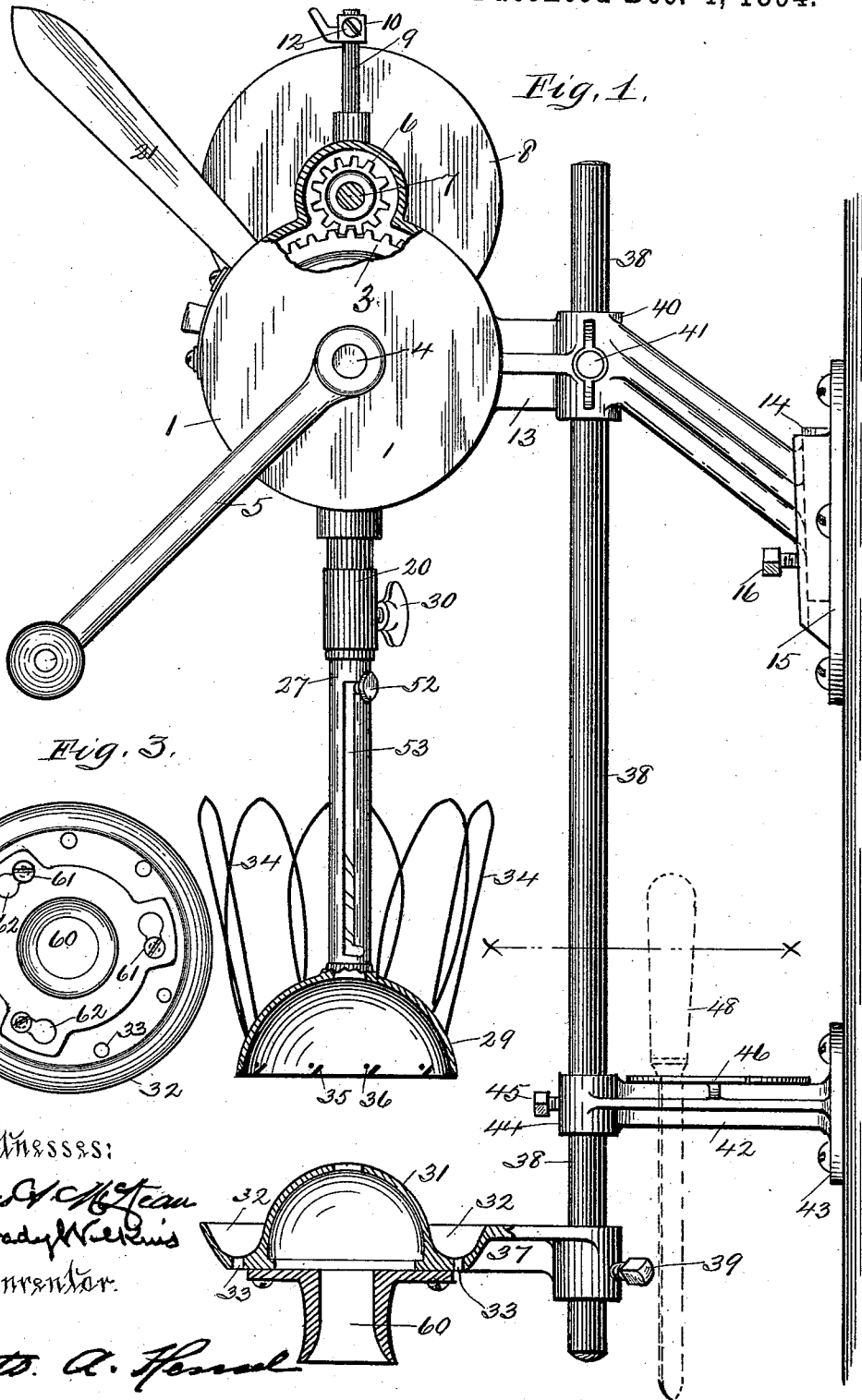
(No Model.)

3 Sheets—Sheet 1.

O. A. HENSEL.
HOUSEHOLD OR KITCHEN IMPLEMENT.

No. 530,268.

Patented Dec. 4, 1894.



Witnesses:

James V. McLean
Attorney at Law
Inventor.

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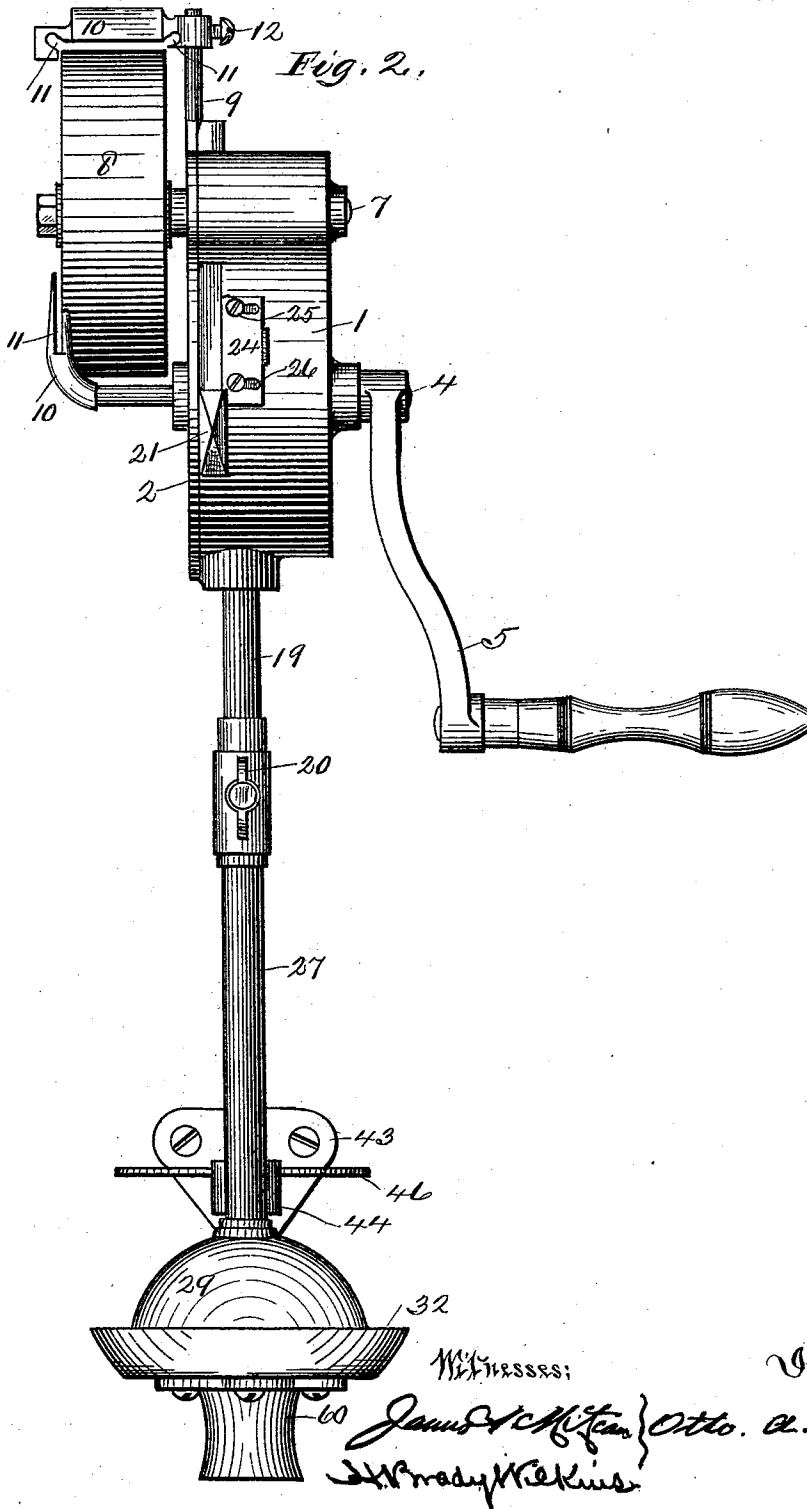
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3 Sheets—Sheet 2.

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Fig. 4.

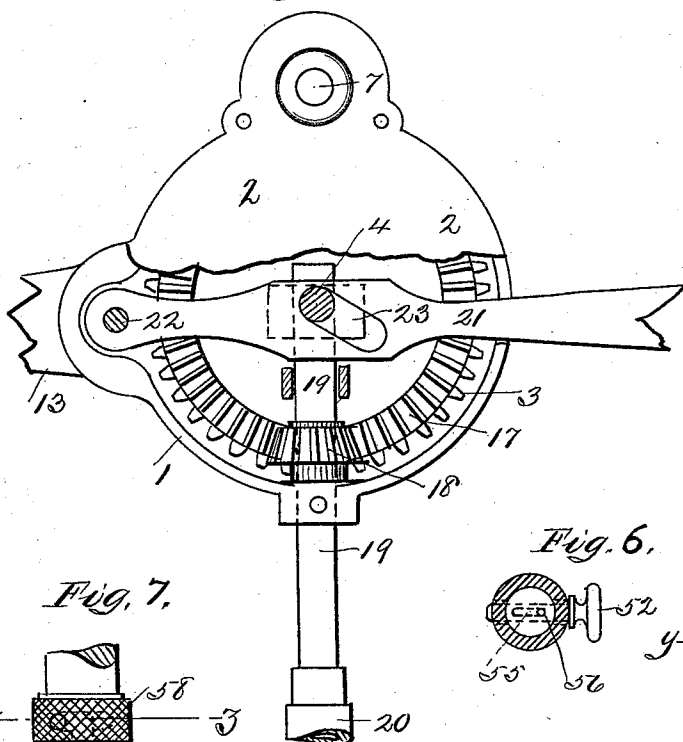


Fig. 5.

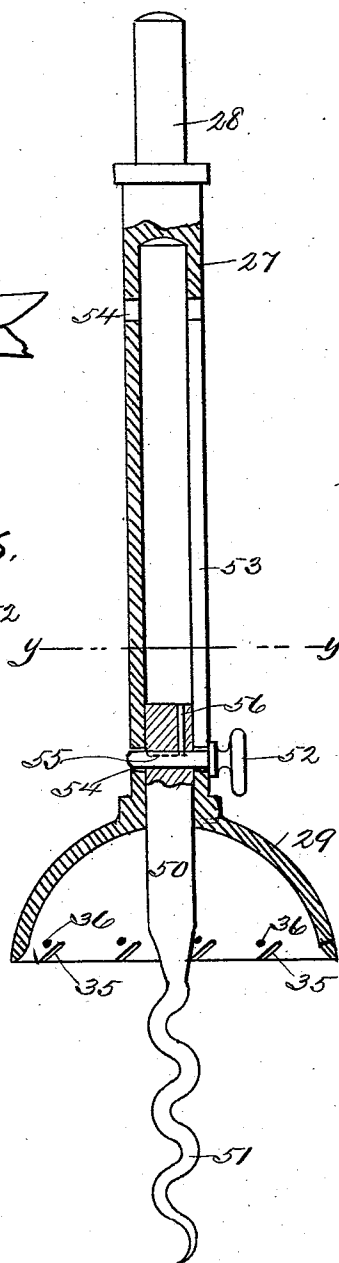


Fig. 6.

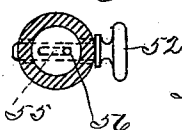


Fig. 7.

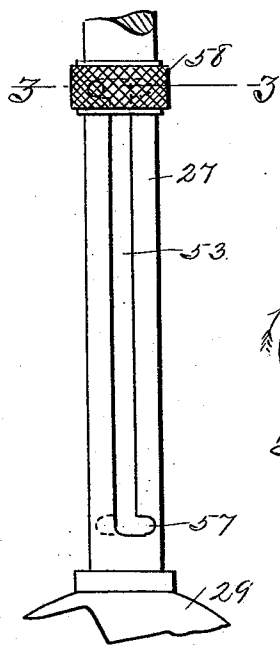
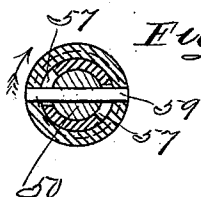


Fig. 8.



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UNITED STATES PATENT OFFICE.

OTTO A. HENSEL, OF PITTSBURG, ASSIGNOR OF ONE-FOURTH TO HOMER BOWES, OF ALLEGHENY, PENNSYLVANIA.

HOUSEHOLD OR KITCHEN IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 530,268, dated December 4, 1894.

Application filed August 20, 1894. Serial No. 520,827. (No model.)

To all whom it may concern:

Be it known that I, OTTO A. HENSEL, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in a Household or Kitchen Implement; and I do hereby 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved household implement and it consists in a device for drawing corks, extracting the juice of lemons, and stirring or beating the same, together with a device for grinding and polishing knives, &c., and also the certain details of construction, and combination of parts as will be fully described hereinafter.

In the accompanying drawings, Figure 1, is a side elevation of my improved household implement which is constructed and arranged in accordance with my invention, showing a portion of the said view in section the better to show the inner working parts. Fig. 2 is a front elevation of the same. Fig. 3 is an inverted plan view of the detachable holder for drawing corks from bottles. Fig. 4 is a rear elevation of the frame having a portion of the back plate removed, showing the means for revolving and moving the tool socket vertically. Fig. 5 is an enlarged detailed sectional elevation of the combined cork drawing and lemon juice extractor. Fig. 6 is a cross section on the line $y-y$ of said Fig. 5. Fig. 7 is a side elevation of a modified form of the combined cork drawer and press. Fig. 8 is a sectional plan view of the same, said section taken on the line $z-z$ of Fig. 7.

To construct an implement in accordance with my invention, and thereby provide a useful household implement, by means of which corks may be easily drawn from bottles, various forms of fruit properly pressed, together with a suitable grinding attachment, I provide an annular frame 1, of a suitable size and form of construction, and fit the same with a removable rear plate 2, in order that the inner mechanism may be easily arranged

therein. Mounted centrally within this frame 1 is a shaft 4 provided with a hand crank 5, or other suitable means of giving the shaft a rapid rotary movement, and the said shaft 4 fitted with a large gear wheel 3. This gear wheel 3 is in mesh with a pinion 6 arranged on a shaft 7 above, and the said shaft 7 provided with a grinding and polishing wheel 8, which will also answer the purpose of a fly or power wheel to drive the parts hereinafter described.

Formed integral with the frame or casing 1 is a stout bracket 13, the free end of which is provided with a dovetailed portion 14, which is adapted to engage with a corresponding mortise formed in a plate 15, by means of which the apparatus may be attached to the wall or other vertical surface. A set or thumb-screw 16 will afford a means for rigidly attaching or connecting the bracket with the plate.

Formed with the toothed wheel 3 is a bevel wheel 17, which is in mesh with a bevel pinion 18 loosely mounted by means of a spline on a vertically arranged shaft 19. This shaft 19 is provided at its lower end with a socket 20 for the purpose of holding a combined tool or implement as will be hereinafter described, and the said shaft 19 is capable of a limited vertical movement by means of a lever 21, connected to the shaft 19 by a block and pivots, and slot 23. This lever 21 projects through a slotted portion of the frame 1, and is held elevated at the top of the said slot by a sliding segment 24 attached to the frame by screws 25 operating in transverse slots 26.

Detachably secured in the socket 20 by means of a thumb screw 30 is a hollow shaft 27, formed with a male socket 28, and with a semi-spherical portion 29 at the base, said portion 29 forming the female part of the fruit press, and a holder for suitable bent wires 34 to form a beater. Arranged within the hollow stem 27 is a cork screw 51 (see Fig. 5), having a shank 50. This shank 50 is attached within the stem 27 by means of a pin 52 operating along a slot 53 formed in the direction of the length of the said shank. This slot 53 is formed at each end into a pocket, into which the pin 52 may be entered to hold the cork screw in an elevated position, as at Fig.

5, or extended as shown at Fig. 8. To give the pin 52 a rigid bearing at the base of the slot 53 while drawing cork an opening 54 (see Fig. 5) is formed in the rear wall of the stem directly opposite to the pocket of the slot 53, by means of which the pin 52 may be passed through both walls of the stem. To limit the movement of the pin 52 and prevent the same from being detached, a short recess 55, (see Figs. 5 and 6) is formed along the top in the direction of the length of the said pin, and another pin 56 of small diameter passed down through the top of the cork screw stem 50 to engage with the said recess 55.

To elevate the cork screw 51 and inclose the same within the stem 53, it is necessary to draw the pin 52 to the right until the motion is stopped by the small pin 56. This movement releases the pin 52 from the rear opening 54, and by a slight turn of the pin to the left the same is disengaged from the pocket, at which time the pin 52 together with the cork-screw 51 may be moved upward, and held in an elevated position by engaging the pin 52 with the upper pocket of the slot.

To support the bottle holder of the cork-screw, I attach by means of a screw 41, to a boss 40 formed in the arm 13, a strong shaft 38. This shaft 38 is supported and made rigid by means of a bracket 42 near the base, said bracket being attached to the wall by screws passed through a suitable integral plate 43, and connected to the shaft 38 by an integral plate 44 and clamping screw 45. Adjustably attached to the shaft 38, by a set screw 39 is a holder or rest plate 37, consisting of a casting having the male portion 31 of the fruit press formed on the top, together with an annular recess 32 for the reception of the juice extracted from the fruit. This annular recess 32 is provided with a series of perforations 33, through which the liquid from the fruit may pass and be collected in a vessel (not shown) placed beneath the same.

To afford a means of mixing or agitating lemon or other fruit juices extracted by the above described press, a series of diagonal slots 35 are formed about the lower periphery of the female portion of the press, together with small drilled perforations 36, and a series of upwardly bent spring wires 34 are attached in position by means of the said slots and perforations. By placing this beater 34 within a glass or other vessel containing a mixture of sugar, water, and lemon juice, and the crank revolved, the beater will be given a rapid rotary motion, and thereby thoroughly stirring or mixing the several ingredients.

To extract the juice of a lemon the same is cut in half, and one portion placed on the top of the male die 31, and the lever 21 released from its catch 24, and moved down. This movement of the lever 21 will press the fe-

male portion 29 of the press down toward the male, and by exerting sufficient pressure upon the lever 21, the juice will be forced into the recess 32, and collected in a manner before described.

To form a holder for the neck of the bottle while extracting the cork from the same, I form from cast metal a cylindrical piece 60 provided with a flange at the top, through which there are three openings 62, each of which are formed larger at one end than the other, and the said openings adapted to engage with studs 61, set into the base of the plate 37. This holder may be removed and replaced with one of greater or less opening 60 for large or small bottles by simply giving the same a slight turn to the left, thereby bringing the heads of the studs 61 opposite the large openings of the slots 62.

The wires 34 may be used for the purpose of beating eggs, and other like useful purposes.

At Figs. 7 and 8, I have shown a modified form of the device for holding the cork-screw 51 at the top or bottom of the slot 53, which consists in forming slots 53 at each side of the stem 27, and pass a pin 59 through the said slots and through the shank 50 and attach the said pin to a collar 58 in a manner that the said collar may be revolved a short distance to release the pin from the side pockets of the slot 53.

Various tools such as drills, &c., may be arranged in the socket 20, and made to answer many useful purposes.

To draw a cork from a bottle, the neck of the same is placed in the holder, and the cork-screw 51 made to occupy the position shown at Fig. 5 of the drawings, and the lever 21 released from its catch 24, and the crank revolved to enter the screw into the cork, and by an upward lift of the said lever the cork is easily withdrawn.

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

In an apparatus such as described, the combination of the fruit press and cork drawing device, the press provided with a male and female portion constructed as described, the cork-screw 51 arranged within the shank of the fruit press, the bottle holder 60 attached beneath the male portion of the press, and means substantially as described for giving the said screw a rotary and vertical movement.

In testimony that I claim the foregoing I hereunto affix my signature this 18th day of August, A. D. 1894.

OTTO A. HENSEL. [L. S.]

In presence of—

JAMES A. MCKEAN,
H. BRADY WILKINS.