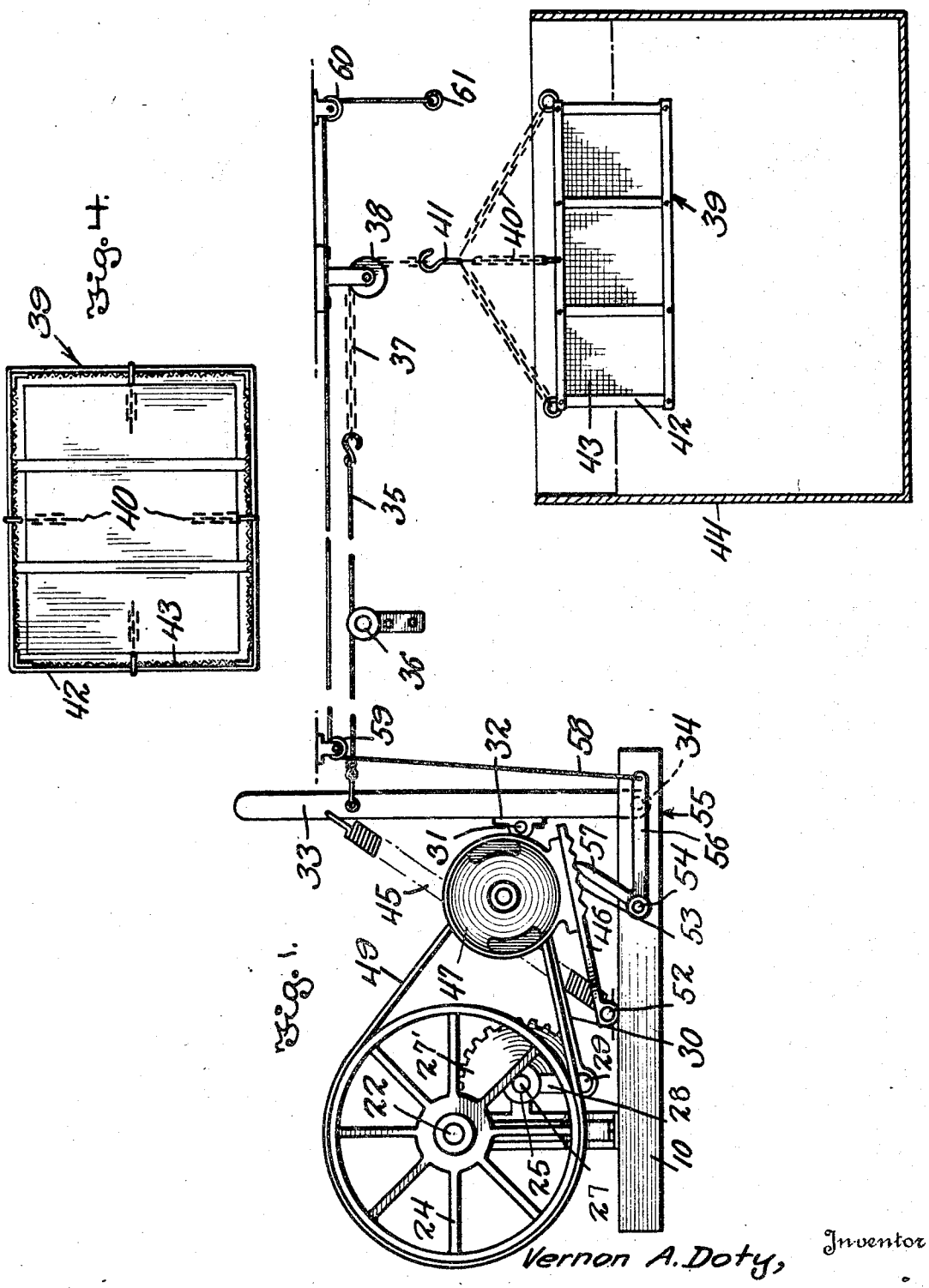
Oct. 25, 1927. 1,646,690

V. A. DOTY

VEGETABLE WASHER

Filed April 14, 1926 2 Sheets-Sheet 1



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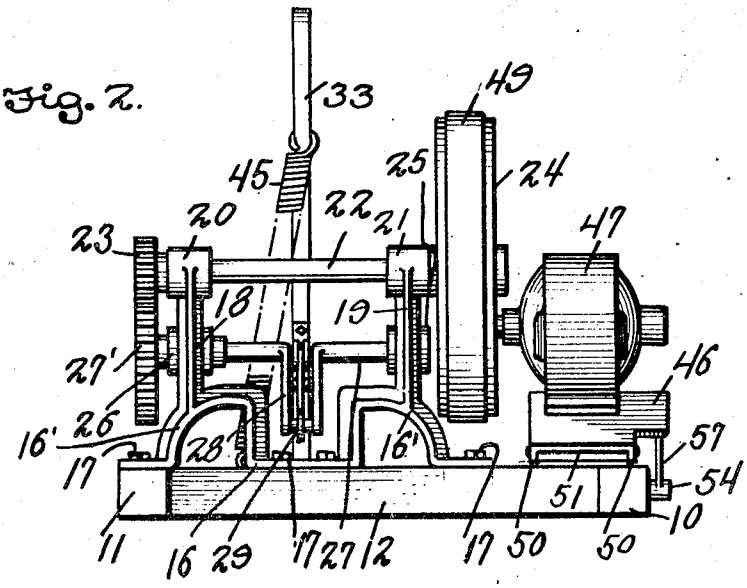
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Fig. 2.



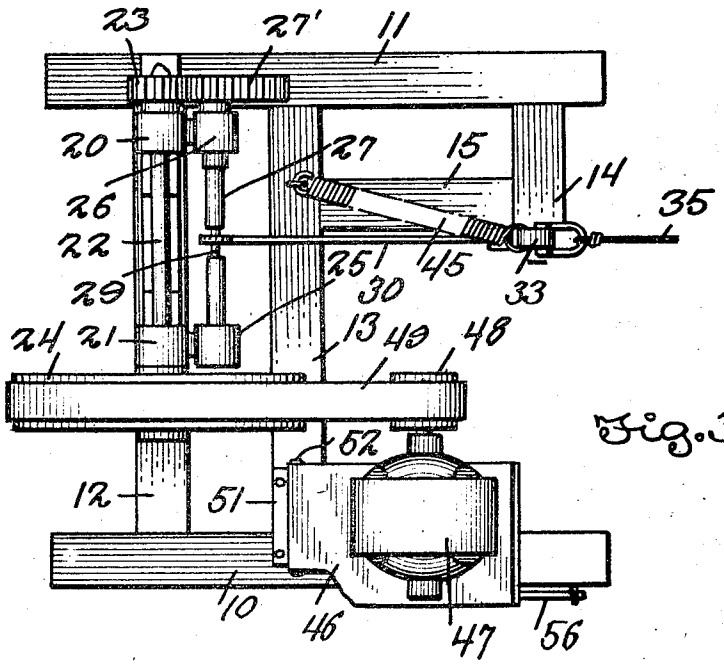


Fig. 3.

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UNITED STATES PATENT OFFICE.

VERNON A. DOTY, OF WEST SPRINGFIELD, MASSACHUSETTS.

VEGETABLE WASHER.

Application filed April 14, 1926. Serial No. 102,065.

This invention appertains generally to new and useful improvements in washers and has more specific reference to a novel and simplified device for washing vegetables and the like.

The primary object of the present invention is to improve generally the construction of devices of this character whereby to produce a vegetable washer which, while simple in construction is nevertheless strong, sturdy and durable, practical and efficient in its operation and possessing many advantages not found in prior art structures of this nature.

Another object of the present invention is to provide such a vegetable washer including a washing basket together with new and novel means for automatically raising and lowering the same in a tub of water whereby to thoroughly cleanse the vegetables contained within said basket.

Another object of the present invention is the provision of such a washer having associated therewith new and novel means for operating the same.

With these and numerous other objects in view, the invention resides in the novel construction, combination and arrangement of parts to be more fully hereinafter described, illustrated in the accompanying drawings and particularly pointed out in the appended claims.

In the drawings forming a part of this application and wherein like characters of reference denote corresponding parts throughout the several views:

Figure 1 is a side view in elevation, of a vegetable washer constructed in accordance with the present invention.

Figure 2 is an end view thereof.

Figure 3 is a top plan view of the means for automatically raising and lowering the basket.

Figure 4 is a top plan view of the basket.

Referring now more particularly to the accompanying drawings wherein for the purpose of illustration has been disclosed a preferred embodiment of the present invention, it will be noted that the same comprises in its construction a base including spaced parallel longitudinally extending sills 10 and 11 connected together by means of the transverse brace bars 12 and 13. Secured to the sill 11 adjacent its forward end is the transversely extending stub bar 14 connected to the brace bar 13 by means of the longitudinally extending bar 15.

Supported upon the sill 11 and brace bar 12 is the transversely extending substantially U-shaped bracket 16 provided at its opposite ends with the outwardly and downwardly curved legs 16′, said bracket and legs being secured in position by means of suitable fastening elements 17. Carried by the legs 16′ are the vertically disposed spaced bearing arms 18 and 19 formed at their upper ends with the alined bearings 20 and 21 within which is journaled the shaft 22, said shaft extending outwardly of said bearings and provided at one end with a beveled gear 23 and at its opposite end with a drive pulley 24.

Carried by the bearing arms 18 and 19 intermediate their ends and extending forwardly therefrom are the alined bearings 25 and 26 within which is rotatably mounted the crank shaft 27 having the crank or throw arm 28 provided with the crank pin 29. The crank shaft 27 extends beyond the bearing 26 and has mounted thereon a pinion gear 27′ arranged to mesh with the gear 23. Mounted upon the crank pin 29 is one end of the pitman 30, the opposite end thereof being pivotally connected as at 31 to the block 32 carried by the operating lever 33 intermediate the ends thereof, said lever 33 being pivotally secured at its lower end, as indicated at 34, to the transverse bar 14.

Also secured to the lever 33 adjacent the upper end thereof is a wire cable 35 which passes over an idler pulley 36 and has secured to its outer end, one end of a chain 37, said chain extending over the pulley 38 and supporting at its outer end a basket generally indicated by the reference numeral 39. The basket 39 comprises preferably a metal frame 42 within which is removably arranged a suitable wire basket 43 of the desired gauge. Attached to the upper end of the frame 42 are a plurality of chains 40, the upper ends of which are secured to a hook 41 detachably engaged with the chain 37. The basket 39 is adapted to be raised and lowered within the tub or container 44 which is arranged to contain a quantity of water for washing the vegetables which are to be positioned within the basket. For the purpose of normally urging the lever 33 rearwardly so as to retain the basket 39 in a raised position, there is provided a suitable contractile coil spring 45 having one end secured to the said lever 33 and its opposite

end secured to the transverse brace bar 13.

Swingably supported upon the sill 10 and brace bar 13 is a platform 46 upon which is mounted a motor 47 which may be of any desired type. The drive shaft of said motor has mounted thereon a guide pulley 48 and trained around said pulley 48 and the pulley 24 is a drive belt 49.

By referring particularly to Figure 2. it will be noted that the rear end of the platform 46 is provided with the depending ears 50 adapted to aline with the barrel hinge section 51 carried by the base and a pivot pin 52 is adapted to be passed through the said hinge section 51 and ears 50 whereby to provide a pivotal connection between the platform and the base. The under surface of the platform 46 is also provided with a plurality of notches 53, the purpose of which will become more apparent hereinafter. Pivotally mounted as at 54 to the sill 10 is an angle lever generally indicated by the reference numeral 55 and comprising the operating leg 56 and the angularly extending arm 57 which is adapted to engage the notches 53 of the platform 46. Secured to the free end of the operating leg 56 is one end of the control cord 58, said cord extending upwardly and over the pulley 59 and also over the pulley 60, said cord terminating adjacent the washer tub 44 and provided with an eye or hand grip 61.

In the use of the present invention, the vegetables and the like are first placed within the basket 39 and the tub 44 is filled with water. The platform 46 is then lowered until the belt 49 becomes taut. The motor 47 is then operated and the rotary motion thereof will be transmitted to the shaft 22 and thence to the crank shaft 27 through the intermeshing gears 23 and 27'. The rotation of the crank shaft 27 will impart an oscillatory movement to the pitman 30 and this movement will, to turn, be imparted to the operating lever 43 which will result in the raising and lowering of the basket 39. This raising and lowering of the basket will cause the thorough washing of the vegetables contained therein, as will be readily understood.

When it is desired to remove the vegetables from the basket 39, it is only necessary for the operator to grasp the end 61 of the control cord 58 whereupon the angle lever 55 will be swung about its pivot 54 and the arm 57 thereof engaging with the platform 46 will act to raise the same. When this is done, the belt 49 becomes loose so that the motor 47 can rotate without this rotary movement being imparted to the pulley wheel 24, thus stopping the rotation of the crank shaft and the consequent raising and lowering of the basket. When it is desired to again cause the operation of the device, the lever 55 is shifted, manually or otherwise, to permit the platform 46 to drop and thus draw the belt 49 taut again to start the machine.

Changes in the details of construction may be resorted to without departing from or exceeding the spirit of the invention so long as such changes fall within the scope of the appended claims.

What is claimed is:

1. In a washer of the class described, a base, an operating lever pivotally carried by the base, a container connected to said operating lever, a crank shaft, connections between the crank shaft and operating lever, a motor for driving the crank shaft, and means for raising the motor to break the driving connection between the motor and crank.

2. In a washer of the class described, a base, an operating lever pivotally carried by the base, a container connected to said operating lever, a crank shaft carried by said base, a pitman connecting the crank shaft and the operating lever, means for driving the crank shaft, a platform swingably mounted upon the base, a motor carried by the platform and having operative connections with said driving means, and an angle lever pivotally carried by said base and adapted to be swung about its pivot to engage said platform whereby to raise the motor to break the driving connection between the motor and crank.

3. In a washer of the class described, a base, an operating lever pivotally carried by the base, a container connected to said operating lever, a crank shaft, connections between the crank shaft and operating lever, a motor for driving the crank shaft, means for raising the motor whereby to break the driving connection between the motor and crank, and spring means connected with the base and operating lever for normally retaining the container in a raised position.

4. In a washer of the character described, an article container, means for causing vertical reciprocatory movement of the container in a body of cleaning liquid, a motor for operating the raising and lowering means, and means for shifting the motor whereby to control the vertical movement of the container.

5. In a washer of the class described, a base structure, an article container, means supported upon said base for causing vertical reciprocatory movement of said article container, a motor shiftably mounted on said base, power means connecting said motor with the means for vertically moving the container, and means whereby the position of said motor may be altered for slacking the power means connecting the same with said container reciprocating means to start or stop the said container reciprocating means, as desired.

6. A vegetable washer of the character de-

scribed, comprising a container, a base structure, means carried by said base for causing the raising and lowering of the container, a motor swingingly mounted upon said base, power connecting means between the motor and the raising and lowering means and an angle lever pivotally carried by the base and adapted to be swung to raise the motor for slacking the power transmitting means between the same and the raising and lowering means, to stop the operation of the washer.

7. In a washer of the character described, a container, a base structure, means carried by said base for raising and lowering the container in a wash liquid, a platform swingingly mounted upon the base, a motor mounted upon said platform, a drive connection between said motor and said raising and lowering means, an angle lever pivotally mounted upon the base and adapted, when swung about its pivot, to engage the platform to raise the same to slack said drive connection for stopping the operation of said raising and lowering means, and manually controlled means for operating the angle lever.

8. A vegetable washer of the character described, including a suspended vertically reciprocable container, comprising a vertically arranged oscillatory lever, a cable connection between said lever and said container for shifting the container upon the oscillation of the lever, a crank shaft, means for revolving the same, and a connecting rod between the crank of said crank shaft and said lever whereby the lever may be caused to oscillate upon the rotation of the crank shaft.

9. In a vegetable washer of the class described including a vertically reciprocable suspended basket, oscillatory means having flexible connection with said basket for raising and lowering the same, a rotatably mounted crank adjacent said lever, connecting rod between said rod and said lever, designed upon reciprocation to oscillate the lever, means for rotating said crank comprising a motor having drive connecting means with the crank, and means for stopping the operation of said drive connecting means consisting of a pivotally mounted platform supporting said motor, and a pivotally mounted angle lever having one arm engaging the under side of said platform whereby upon the oscillation of the other arm, the platform may be raised to stop the operation of the washer.

In testimony whereof I affix my signature.

VERNON A. DOTY.