J. N. JACKSON.

DOMESTIC UTENSIL.

APPLICATION FILED FEB. 20, 1915.

1,156,781.

Patented Oct. 12, 1915.

2 SHEETS—SHEET 1.

Fig. 3.

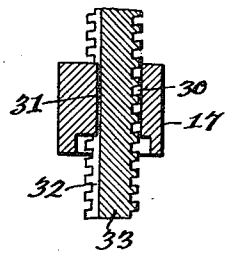


Fig. 6.

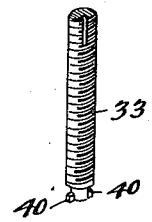


Fig. 5.

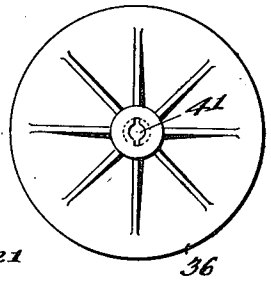
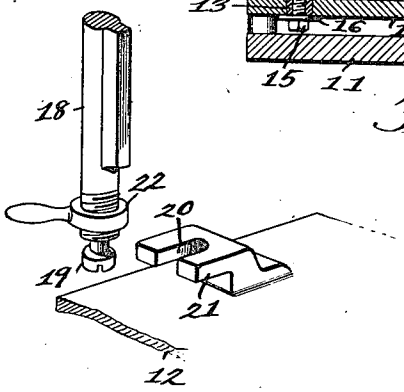


Fig. 4.



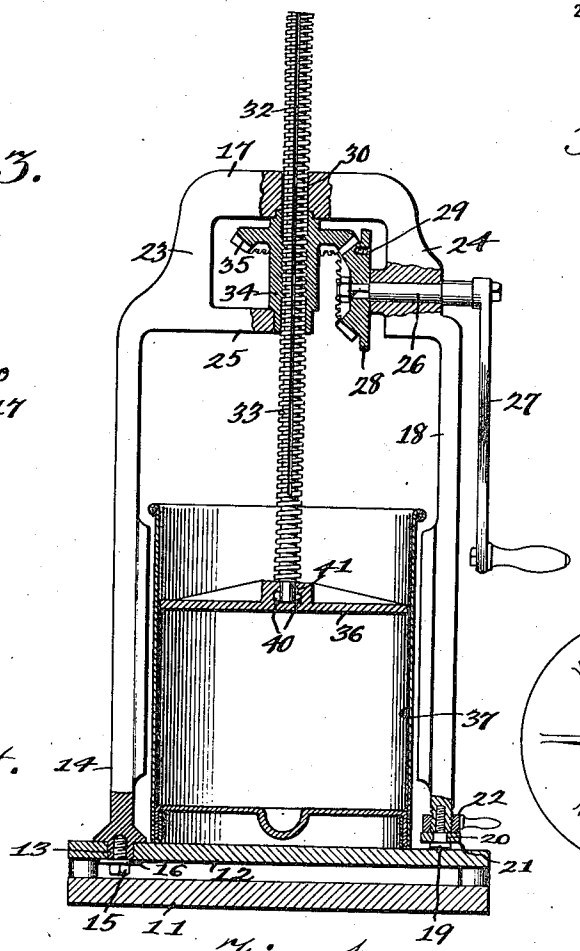
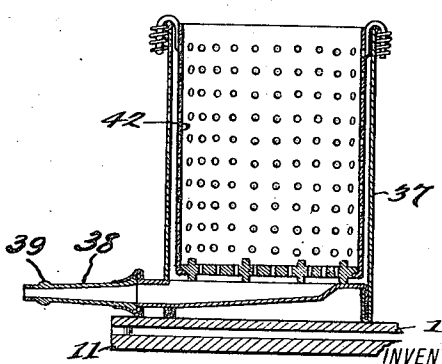


Fig. 1.

Fig. 2.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 7.

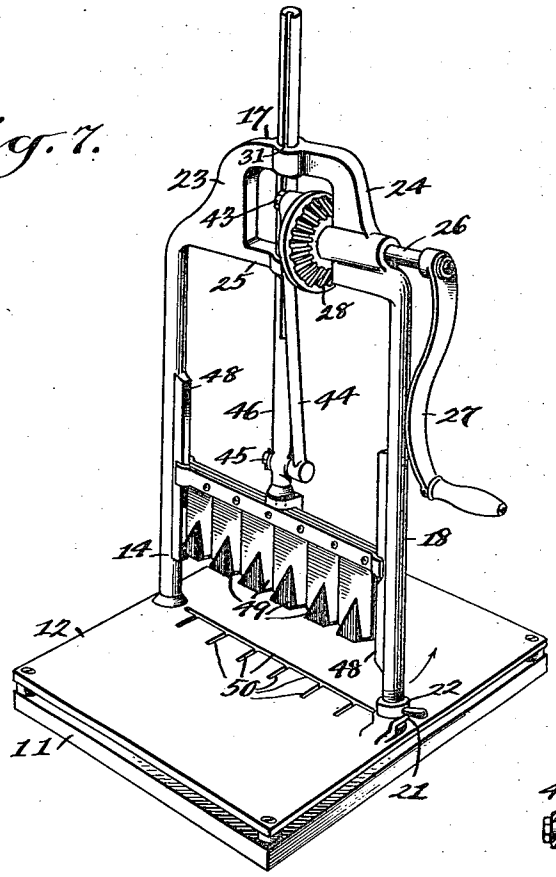


Fig. 8.

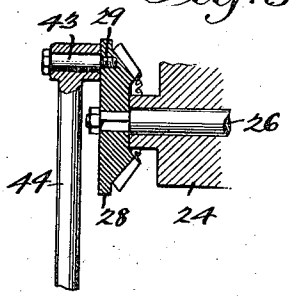
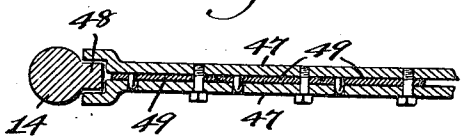


Fig. 9.



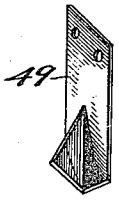


Fig. 10.

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JAMES N. JACKSON, OF MILLERSVILLE, ILLINOIS.

DOMESTIC UTENSIL.

1,156,781. Specification of Letters Patent. Patented Oct. 12, 1915.

Application filed February 20, 1915. Serial No. 9,665.

To all whom it may concern:

Be it known that I, JAMES N. JACKSON, a citizen of the United States, and a resident of Millersville, in the county of Christian and State of Illinois, have invented certain new and useful Improvements in Domestic Utensils, of which the following is a specification.

My invention relates to utensils adapted for farm, household, and other uses, and the main object thereof is to provide a frame or support for either of a plurality of attachments whereby the device may be used for various purposes. By means of such attachments my device is adapted for use as a press, for wine, fruit, or lard; as a meat or lard chopper; as a sausage stuffer; etc.; without any alteration in the frame structure.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which like reference characters refer to like parts in each of the views, and in which:—

Figure 1 is a side view of my invention, partly in section, for use as a wine-press; Fig. 2 is a sectional view of an attachment adapting the device for use as a sausage stuffer; Fig. 3 is a sectional view of a detail of Fig. 1; Fig. 4 is a fragmentary view of another detail; Fig. 5 is a plan view of the press plate shown in Fig. 1; Fig. 6 is a fragmentary view of the worm adapted to be connected with said press plate, detachably; Fig. 7 is a perspective view of my invention in use as a meat or lard chopper; Fig. 8 is a sectional view of a detail thereof; Fig. 9 is a fragmentary sectional plan, showing the method of guiding the cutter blades in my device; and Fig. 10 is a detached, perspective, view of one blade.

My invention comprises a base-plate 11 having a floor plate 12 connected therewith and in which is rotatably mounted the reduced end 13 of a flanged standard 14, a bolt 15 and washer 16 holding the same in place, as shown in Fig. 1; said standard carries a cross-head 17 which carries a complemental standard 18 having a bolt 19 threaded into the lower end thereof and which bolt is adapted to enter a slot 20 in a lug 21 immovably held on the floor plate 12, a handled collar 22 being threaded upon the lower end of the standard 18 and adapted to be screwed down into engagement with the lug 21 to lock this standard against movement; it will be seen, however, that when the standard 18 is released from the lug 21 the standard 14 may be rotated to carry the cross-head 17 and standard 18 from over the floor plate 12.

The cross-head 17 is connected with the standards by two vertical members 23 and 24, and the former of which has a horizontal arm 25 thereon at a material distance below the cross-head and extends but little more than halfway across the space between the standards and the outer end of which is forked. The member 24 has a horizontally arranged shaft 26 therein adapted to be rotated by a crank-arm 27 and having a bevel-gear 28 in detachable engagement with the inner end thereof and which gear has a threaded hole 29 therein for a purpose later described.

The cross-head 17 has a vertical bore 30 therethrough having a feather 31 resting in a groove 32 in a vertical worm shaft 33, whereby the rotation of said worm shaft is prevented; held between the cross-head 17 and arm 25 is a sleeve 34 enmeshed with said worm shaft 33 and having a bevel gear 35 thereon enmeshed with the gear 28, said sleeve having its upper and lower ends reduced to serve as guides in the cross-head and the fork of the arm 25, respectively. It will be seen that, if the crank-arm 27 be actuated the worm shaft 33 is moved correspondingly upwardly or downwardly through the cross-head to correspondingly affect a press-plate 36 on the lower end of said worm shaft and movable in a hopper or tank 37 resting upon the floor-plate 12; the hopper 37 is provided, at the bottom thereof, with a spout 38 having an enlargement adjacent the outer end thereof, at 39, for a reason later pointed out.

The press-plate 36 is readily detachable from the worm shaft 33 by reason of ears 40 on the bottom of said shaft 33 being adapted to enter an elongated slot 41 in the upper surface of said plate, as shown in Figs. 6 and 5, said ears being afterward turned through an arc of a circle within a circular recess in said plate, whereby said ears are locked against accidental removal from the plate.

The device so far described is adapted for use as a press, one use being for stuffing sausage casings which may be passed over the enlargement 39 of the spout 38 and the crank arm actuated to force meats through

the spout into said casings; it may also be used for forcing the juices from fruits, berries, etc., and in which use I may employ a supplemental, perforated, receiver 42 within the tank 37 and in which the press-plate will be vertically movable.

The press-plate may be raised out of the tank and detached from its worm-shaft; the tank may be moved from the floor-plate; the worm-shaft may then be slid downwardly in the cross-head and removed; the sleeve 34 with attached bevel gear may then be removed; the bevel gear 28 may then be removed from the shaft 26; and the frame itself may then be swung outwardly of the floor-plate by merely loosening the collar 22; and the base-plate, floor-plate, frame, shaft 26, and crank-arm may then be used for other purposes than that described. One of such alternate uses is shown in Figs. 7 to 10, inclusive, in which the gear 28 is reversed on the shaft 26, and provided with a crank-pin 43 for a link 44 pivoted at 45 to a vertically movable rod 46 longitudinally slotted to receive the feather 31, said rod being guided in the bore 30 and within the fork of the arm 25, as clearly shown in Fig. 7.

In detachable engagement with the lower end of the rod 46 are two parallel, horizontally arranged, bars 47 which jointly engage an integral spline 48 on each of the standards 14 and 18; said bars are bolted together, detachably, and hold a plurality of cutter-blades 49 therebetween, preferably of the form shown in Fig. 10, and I may slot the floor-plate 12, as shown at 50, to permit the blades to pass below the surface of said floor-plate and thus adapt the same to chopping meats, fats, or other commodities.

The invention, therefore, consists of a base having a frame thereon adapted to detachably receive any one of a plurality of vertically reciprocating elements having means at the lower ends thereof for operating upon selected commodities in certain desired manners, said frame carrying a crank shaft for reciprocating said element, suitable guides for said element, and being adapted to be swung outwardly of said base to permit the insertion of a suitable tank or equivalent thereunder, or to permit the removal thereof.

While I have illustrated certain details of construction as to the attachments, I do not confine myself thereto as will be obvious, my invention residing in the frame which is adapted for the desired purposes, and constructed accordingly.

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

A device of the class described, comprising a base, a frame thereover comprising standards, a cross-head joining the tops thereof, and a forked arm beneath and parallel with said cross-head extending to a point approximately midway between said standards, a vertically movable element guided in said cross-head and said arm, a crank-shaft in said frame in operative connection with said element, and means in operative connection with the lower end of said element for operating on farm products in desired manner.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES N. JACKSON.

Witnesses:
E. E. Lloyd,
G. J. Adelhart.