No. 764,730. PATENTED JULY 12, 1904.

J. M. KING.

WASHING MACHINE.

APPLICATION FILED JAN. 18, 1904.

NO MODEL.

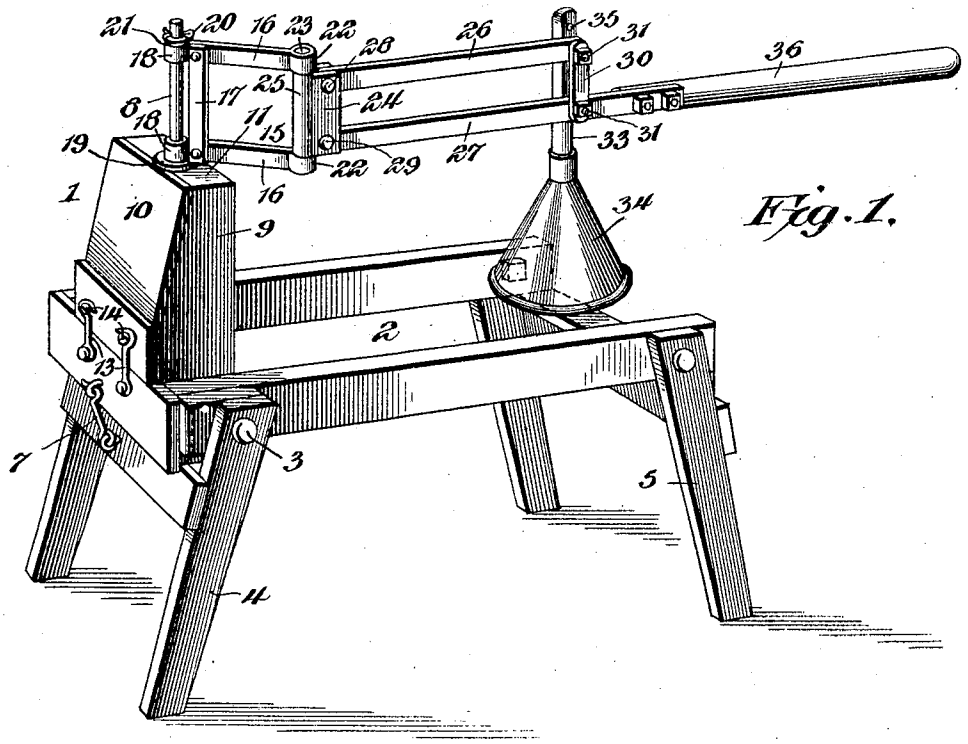


Fig. 1.

Fig. 2.

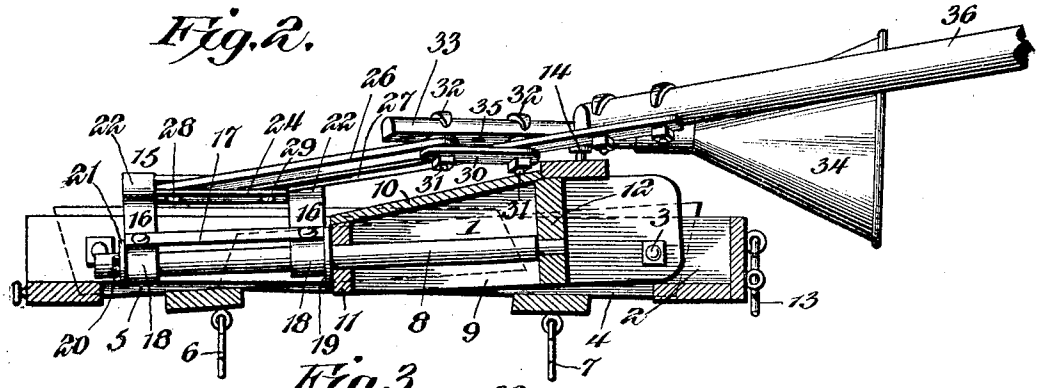
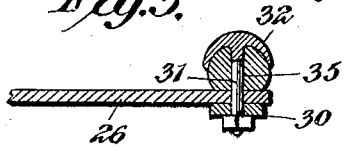


Fig. 3.



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No. 764,730. Patented July 12, 1904.

UNITED STATES PATENT OFFICE.

JAMES M. KING, OF NEBRASKA CITY, NEBRASKA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 764,730, dated July 12, 1904.

Application filed January 18, 1904. Serial No. 189,474. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. KING, a citizen of the United States, residing at Nebraska City, in the county of Otoe and State of Nebraska, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

The object of the present invention is to improve the construction of washing-machines and to provide a simple and comparatively inexpensive one which will be light, strong, and durable, easily operated, and adapted to wash clothes and other fabrics without wearing or otherwise injuring the same.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a washing-machine constructed in accordance with this invention, the parts being arranged in position for operation. Fig. 2 is a longitudinal sectional view of the same, the washing-machine being folded. Fig. 3 is a detail sectional view illustrating the manner of adjustably securing the pounder to the operating mechanism.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates the hinged support, mounted on a bench 2 at one end thereof and connected with the same by pivot-bolts 3. The bench, which may be of any desired construction, is preferably provided with folding legs 4 and 5, connected with the top of the bench by pivot-bolts. The legs are held in position to prevent accidental folding by means of hooks 6 and 7. The bench is adapted to receive a tub or receptacle for the clothes or other fabrics to be washed; but the hinged support may be mounted on any other means for holding a tub or receptacle. The hinged support carries a vertical pivot 8 and is composed of sides 9, a back 10, and upper and lower cross-pieces 11 and 12, which are pierced by the vertical pivot. The back of the support forms a shoulder for engaging the rear end of the bench when the parts are arranged as shown in Fig. 1, and the said support is locked in an upright position by means of hooks 13, mounted on the bench and engaging headed studs 14 of the support. The headed studs are preferably formed by projecting screws; but any other means may be employed for holding the support in an upright position.

The pivot 8, which consists of a rod, extends above the support and receives a horizontal-swinging frame 15, consisting of upper and lower horizontal bars 16 and an inner or rear connecting-bar 17, disposed vertically and riveted or otherwise secured to the bars 16 adjacent to the rear ends thereof. The rear ends of the bar 16 are bent or coiled upon themselves to form eyes 18 for the reception of the pivot 8, whereby the frame is adapted to swing horizontally. The support is provided with a washer or bearing-plate 19 to receive the pivoted frame, and the latter is secured on the pivot by means of a key 20, a washer 21 being interposed between the key and the top of the frame. The key 20 is arranged in a perforation of the upper end of the vertical pivot 8. The front ends of the bar 16 are bent or coiled upon themselves to form eyes 22, and secured therein by rivets or other suitable fastening devices is a vertical pintle 23. The pintle 23 receives a hinge member 24, consisting of a plate or piece bent centrally to form a vertical eye 25 and extended therefrom to form two sides. The eye is arranged on the vertical pintle 23, and the sides of the hinge member have pivoted between them the inner ends of a pair of bars 26 and 27. The bars 26 and 27 are pivoted within the hinge member by rivets 28 and 29 or other suitable fastening devices, and the outer portions of the said bars 26 and 27 are connected by an upright link 30, located at the outer end of the upper bar 26 and adjacent

to the outer end of the lower bar 27, which is extended slightly beyond the upper bar. The link 30 is pivotally connected with the upper and lower bars by bolts 31, having heads consisting of arms 32, which embrace and clamp the stem 33 of a pounder 34. The stem of the pounder is provided with a plurality of perforations 35, whereby the pounder is adjustably connected with the upper and lower bars 26 and 27. The extended end of the lower bar 27 is provided with a handle 36, consisting, preferably, of a separate piece secured to the said bar 27. The handle 36, which is preferably constructed of wood, is bolted or otherwise secured to the extended end of the bar 27.

The inner ends of the bars 26 and 27 are connected with the horizontally-swinging frame by a double-hinged joint which permits the said bars 26 and 27 to swing both vertically and horizontally, and the horizontally-swinging frame enables the pounder to be readily moved to different portions of the tub or receptacle.

The pounder may be of any desired construction, and it is adapted when the bars 26 and 27 are oscillated vertically to force water through the clothes and other fabrics being washed, and it is adapted to effect the operation of washing without wearing, tearing, or otherwise injuring the fabrics. After the operation of washing has been completed the washing-machine may be folded, as shown in Fig. 2, the hinged support being swung downward to a horizontal position and the hinged frame being arranged transversely of the bench. The longitudinal bars 26 and 27 may then be compactly arranged against the support. The hinged support may, however, be mounted in any other desired manner.

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

1. The combination of a hinged foldable support provided with a vertical pivot extending longitudinally of the support and projecting therefrom, a horizontally-swinging frame mounted on the pivot and arranged to fold transversely of the support, a pounder, and longitudinal bars connected at their inner ends to the horizontally-swinging frame and at their outer ends to the pounder and arranged to swing both vertically and horizontally independently of the said swinging frame, said bars being also arranged to fold the pounder substantially longitudinally of the support, substantially as described.

2. The combination of a support having a vertical pivot, a horizontally-swinging frame composed of upper and lower horizontal bars provided at their outer ends with eyes to receive the said vertical pivot and having eyes at their inner ends, a vertical bar connecting the upper and lower bars near the outer eyes, and a pivot fitted in the inner eyes, a hinge member consisting of a plate or piece bent centrally to form two sides, and a connecting-eye, the latter being interposed between the inner eyes of the horizontally-swinging frame and receiving the pivot fitted therein, upper and lower oscillatory bars pivoted at their inner ends between the sides of the hinge member, and a pounder connected with the outer portions of the oscillatory bars, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES M. KING.

Witnesses:

JNO. W. STEMHART,

JNO. EGAN.