No. 621,861. Patented Mar. 28, 1899.

H. C. SIMONS.

WASHING MACHINE.

(Application filed Apr. 8, 1898.)

(No Model.)

Fig-1-

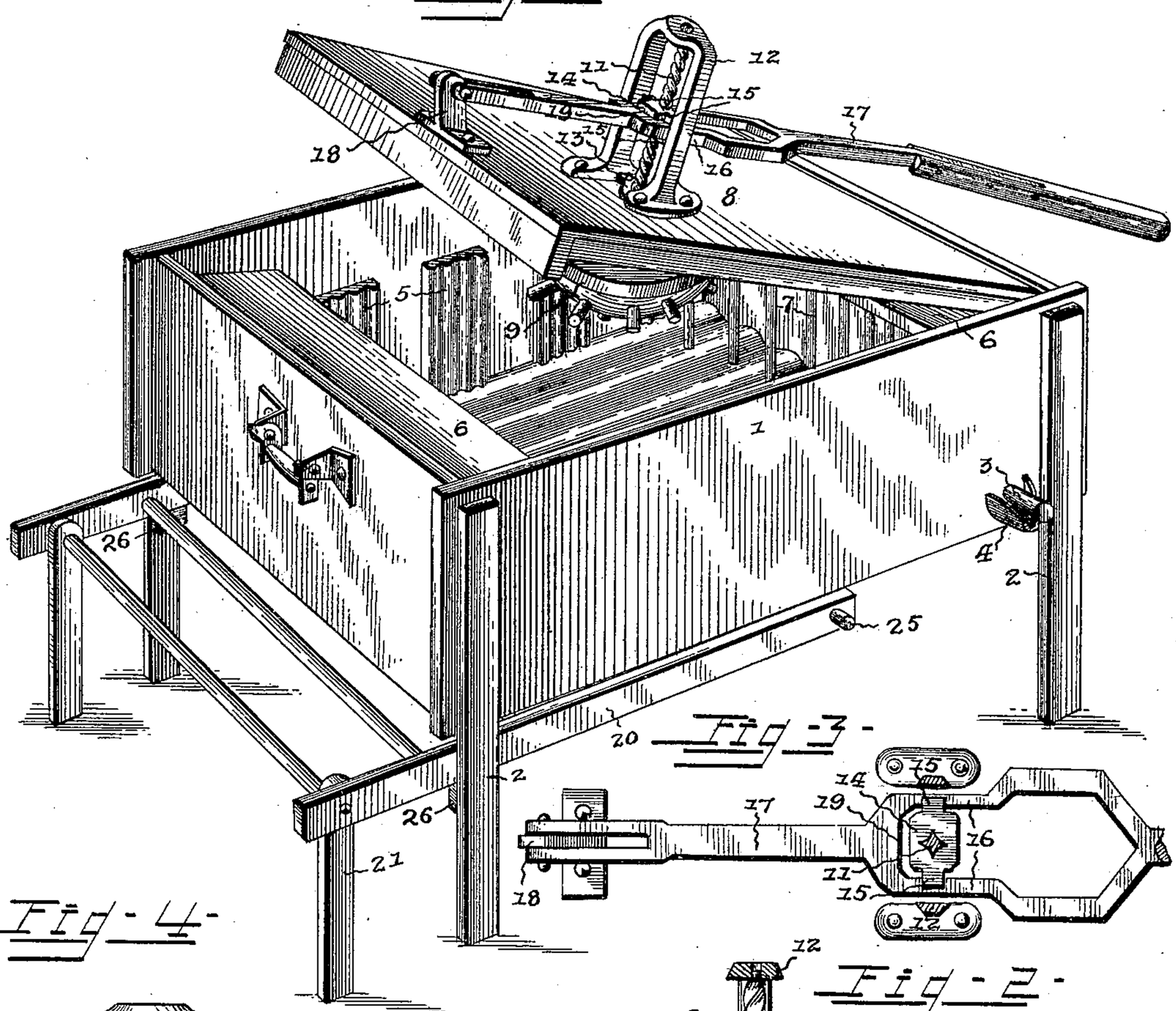


Fig-3-

Fig-4-

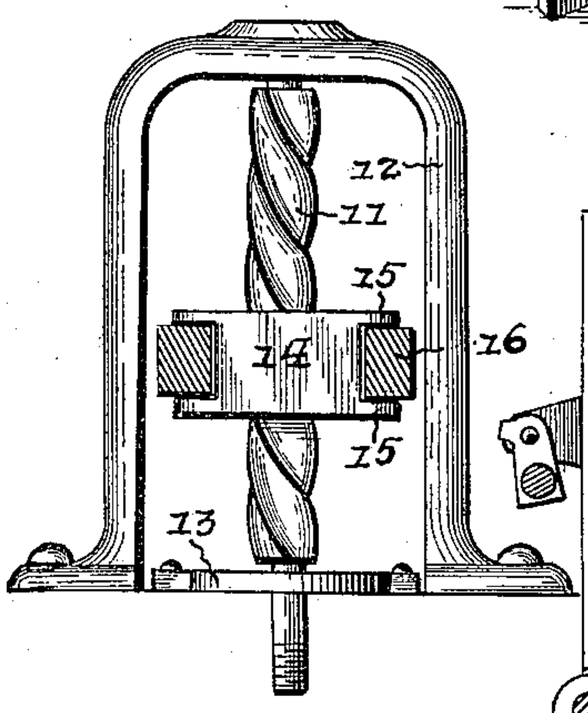
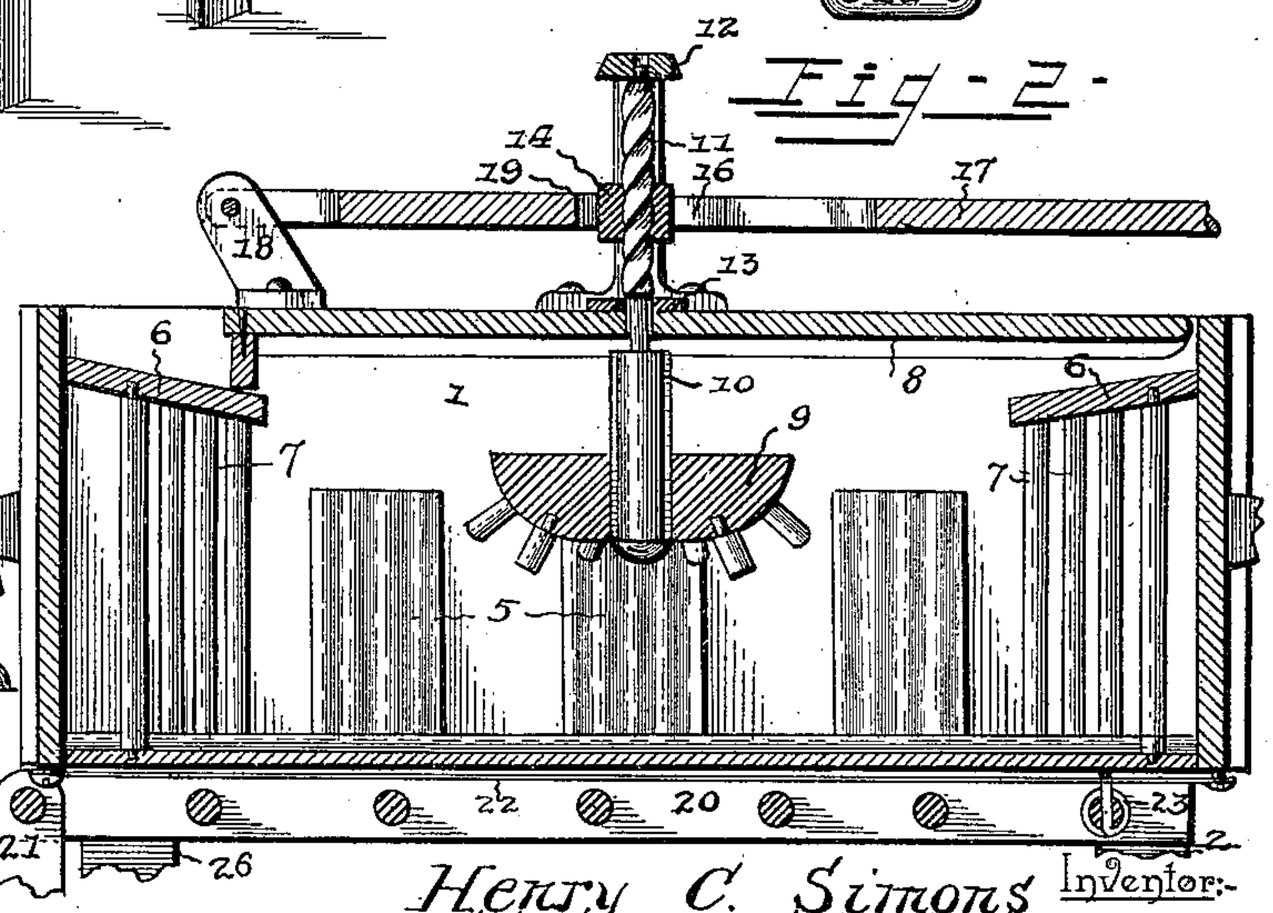


Fig-2-



Witnesses:-
C. J. Young.
U. B. Hillyard.

Inventor:-
Henry C. Simons
By his Attorneys,
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

HENRY C. SIMONS, OF ODEBOLT, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 621,861, dated March 28, 1899.

Application filed April 8, 1898. Serial No. 676,887. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. SIMONS, a citizen of the United States, residing at Odebolt, in the county of Sac and State of Iowa, have invented a new and useful Washing-Machine, of which the following is a specification.

The purpose of the present invention is to improve the general construction of washing-machines and to provide actuating mechanism for the dasher or agitator of simple and effective construction.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a washing-machine embodying the principal features of this invention, the cover or top of the suds-box being partly open and the rest for a tub, pail, or like vessel being partly drawn out. Fig. 2 is a vertical longitudinal section thereof. Fig. 3 is a top plan view of the actuating mechanism, the bracket and the screw-stem being in section. Fig. 4 is a detail view of the actuating mechanism and its mountings.

Corresponding and like parts are referred to in the following description and indicated in the views of the drawings by the same reference characters.

The suds-box 1 is of rectangular shape and mounted upon legs 2. An opening is formed in a side of the suds-box and is closed by a plug 3, which when drawn out provides an escape for the dirty water. A spout 4 directs the escaping water away from the machine into a receptacle into which the spent water is discharged. The bottom of the suds-box is fluted or corrugated, and two of its opposite sides have applied thereto fluted plates 5, against which the clothing is forced when the machine is in operation. Bars 6 are located at opposite ends of the suds-box and project inwardly from the upper portion thereof, and a series of rods 7 connect the bars 6 with the bottom of the suds-box, and these rods serve as beaters to receive the impact of the clothing when thrown thereagainst.

The cover or top 8 is pivoted at one end to an upper end portion of the suds-box and closes upon the bars 6. The cover is shorter than the suds-box, so as to terminate a distance from the end of the suds-box remote from the end to which the cover is pivoted, thereby providing for the application of a wringer to the suds-box in the usual manner. The dasher or agitator 9 and its actuating mechanism are applied to the cover or top 8. The dasher consists of a disk or head, to which are applied a series of pins, which in the operation of the machine engage with the clothing or articles to be washed and impart a whirling movement thereto, whereby the dirt is loosened and removed from the interstices of the fabric from which the clothing is formed. The dasher-rod 10 is secured at its upper end to a screw 11 and is formed at its side with ribs which engage with notches at the sides of the opening of the dasher through which the dasher-rod passes. This construction admits of the dasher rising and falling, so as to accommodate itself to the bulk of clothing immediately below it, so that said dasher may engage with the clothing or articles being washed and impart a rotary or whirling movement thereto.

An arched standard 12 is secured to the upper side of the cover or top 8, and the screw 11 is journaled at its upper end in the horizontal portion of the standard 12 and at its lower end in a bearing 13, applied to the cover 8 intermediate of the lower ends of the members comprising the standard 12. A nut or block 14 is mounted upon the screw 11 and is provided with a pair of ears 15 at each side to engage with separated parts 16 of the operating-lever 17, the nut or block slidingly operating in the space formed between the spaced parts 16 and the pairs of ears 15 embracing the upper and lower sides of the said parts 16. The operating-lever 17 is fulcrumed at one end to a bracket-arm 18, secured to the free end of the cover or top 8, and its middle portion is separated or spread, forming an opening 19, in which slidingly operates the nut or block 14 and which is bounded by the separated parts 16. The nut or block 14 is located in an end portion of the opening 19,

and the opposite end portion of said opening is enlarged to admit of the ready separation of the nut and lever when the said nut is brought by a sliding movement opposite the enlarged part or end of the opening 19. By this construction the parts can be readily assembled or taken apart when the pin connecting the lever with the bracket is removed.

The rest, upon which is placed the tub, boiler, or other vessel, consists of a rack or slatted platform 20, which is provided at its outer end with a folding leg-section 21 and which is supported at its inner end by means of a rod or wire 22, secured at its ends to the end portions of the suds-box, and an eye 23, applied to the rear portion of the rack or platform and receiving the rod or wire 22, upon which it slides. This rack or platform slides between a pair of legs 2 and is supported by blocks 26, secured to the inner side of said legs. The rearmost slat or rod has its end portion extended beyond the side bars of the rack, forming stops 25, which engage with the inner sides or edges of the front and rear legs and limit the movements of the rack when drawn out or pushed in. When the rack is not required for immediate use, it can be pushed under the suds-box, so as to be out of the way, and when required to support a tub, boiler, or the like it is drawn out about as shown in Fig. 1.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

In a washing-machine, the combination with a dasher, a screw having connection with the dasher, and a nut mounted upon the screw and provided with pairs of oppositely-extending ears, of an operating-lever fulcrumed at one end and having its middle portion spread forming an opening in which the said nut is slidingly mounted, said opening being enlarged at one end to admit of the nut being placed in position or removed from the lever, the pairs of ears of the nut embracing the upper and lower sides of the parts of the lever bordering upon and forming the smaller end portion of the opening thereof, substantially as and for the purpose described.

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

HENRY C. SIMONS.

Witnesses:
A. KALLMER,
C. A. JACOBS.