

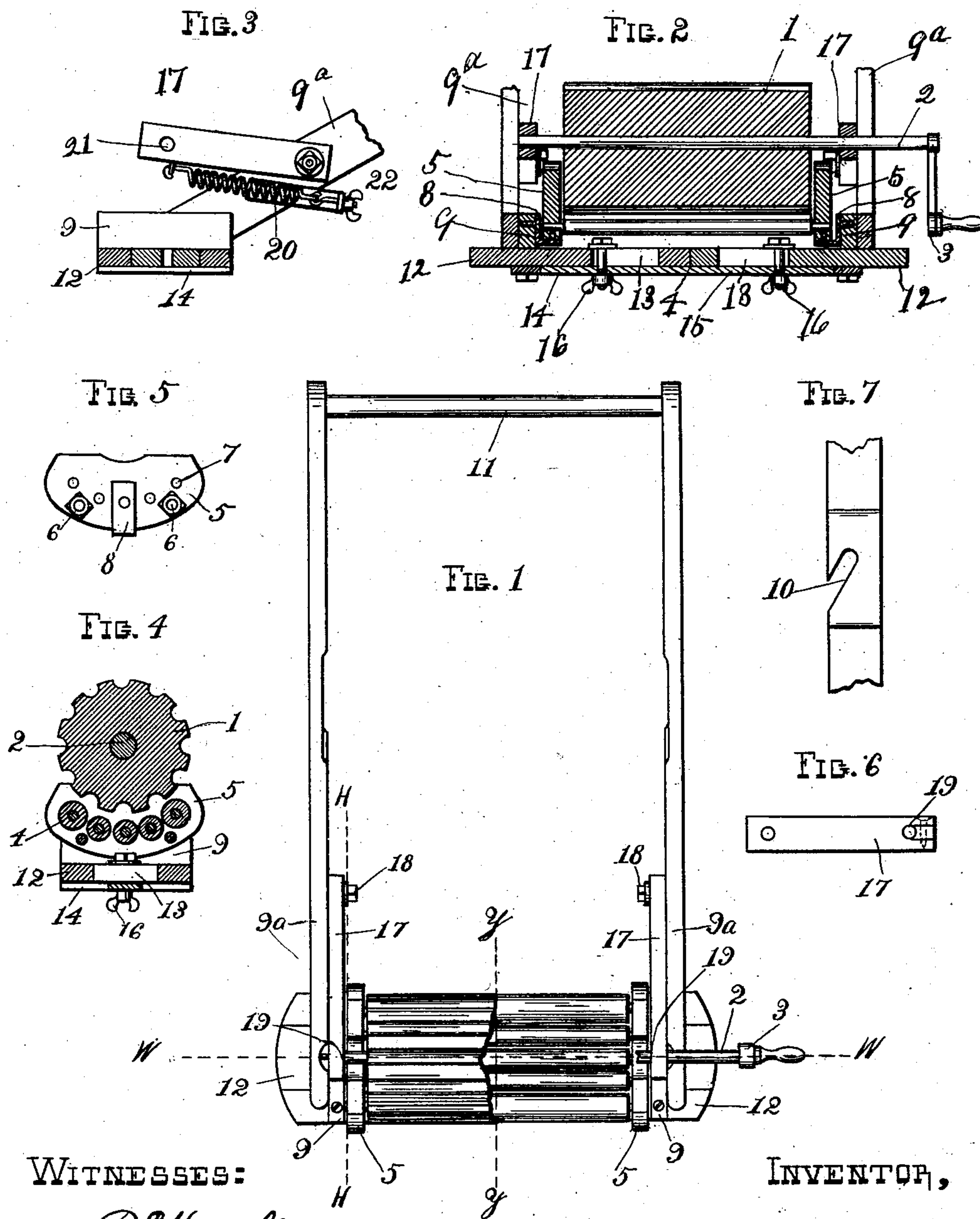
No. 756,204.

PATENTED APR. 5, 1904.

R. C. BEEKMAN.
WASHING MACHINE.
APPLICATION FILED SEPT. 8, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

R. C. Hamilton.
W. A. Lingle.

INVENTOR,

R. C. BEEKMAN.
By Higdon & Higdon
Attys

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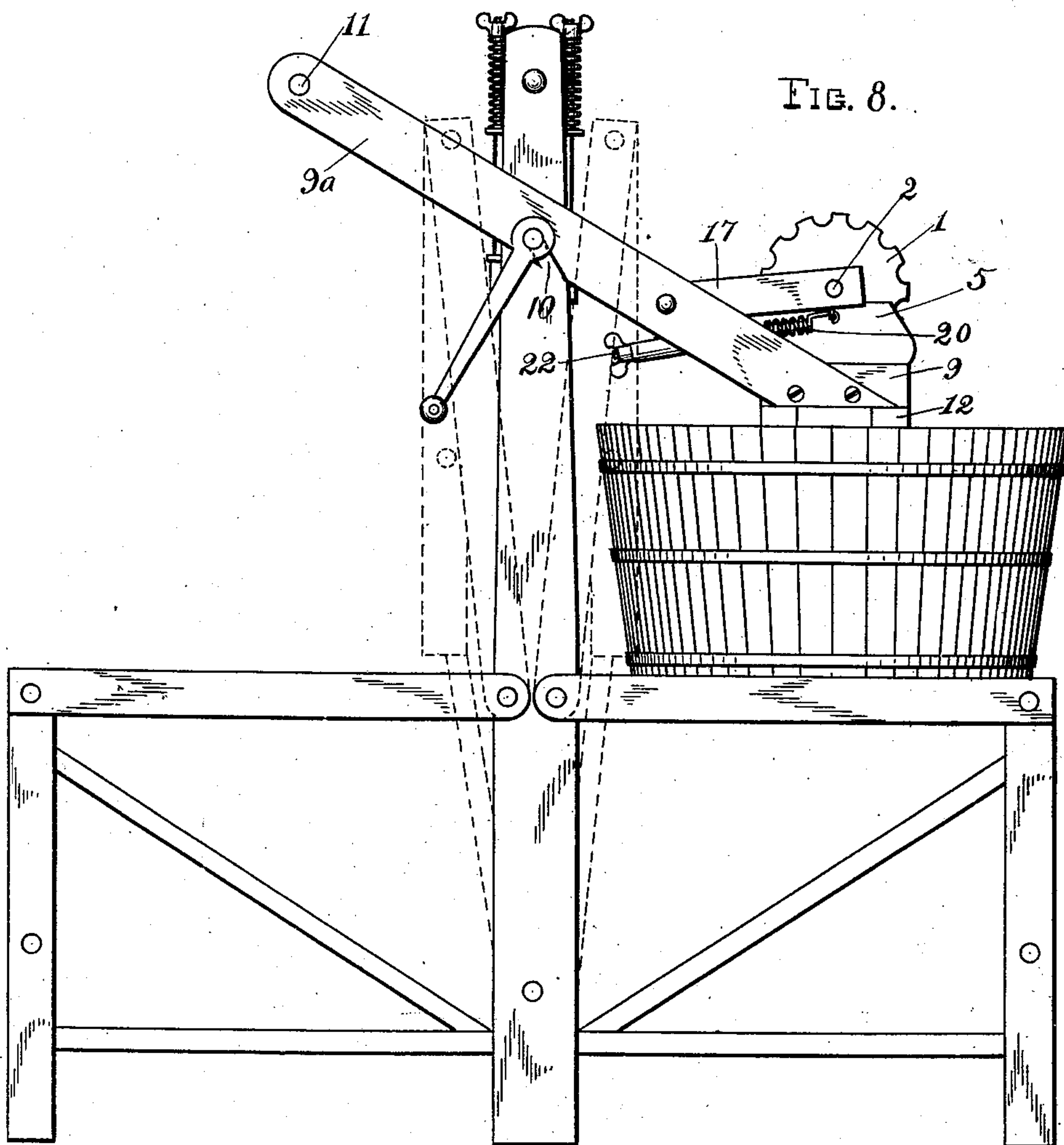
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UNITED STATES PATENT OFFICE.

ROSS C. BEEKMAN, OF INDEPENDENCE, KANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 756,204, dated April 5, 1904.

Application filed September 8, 1903. Serial No. 172,264. (No model.)

To all whom it may concern:

Be it known that I, ROSS C. BEEKMAN, a citizen of the United States, residing at Independence, in the county of Montgomery and State of Kansas, have invented new and useful Improvements in Washing-Machines, of which the following is a specification.

My invention relates to washing-machines; and my first object in producing such a machine is to provide a machine of the character that can be successfully used in a comparatively small space of room.

My second object in producing such a machine is that it is easy of manipulation and is peculiarly applicable to be used in connection with my wringer, upon which I procured a patent, bearing date of February 24, 1903, No. 721,138.

Referring now to the drawings, Figure 1 is a top plan view of the washer with a part of the fluted roller broken away. Fig. 2 is a longitudinal section of the same, taken on line W W of Fig. 1. Fig. 3 is a face view, partly in section, taken on line H H of Fig. 1 looking at the parts left after the washing arrangement is removed. Fig. 4 is a cross-sectional view taken on line Y Y of Fig. 1, disclosing the position of a fluted rotating roller with a series of rollers in close proximity under the fluted roller. Fig. 5 is an outside end view of one of the carriages to which the series of rollers are pivotally secured, disclosing the outside position of a bracket that pivotally secures the rollers to the main frame of the machine. Fig. 6 is a slotted arm, one of the two that carries the fluted roller, which is adapted to receive the shaft of the roller at the end of said shaft where the crank-handle is secured. Fig. 7 is a broken section of one of the extended bars, disclosing a slot which is adapted to engage a horizontal rod or extended parts when the machine is in position to be used. Fig. 8 is a vertical side elevation of my washing-machine in position over a washtub and in a proper position to be used in connection with my wringer, which I have already referred to. It will be noticed in this figure that the stand or carriage which I have provided to support my wringer is adapted to be folded up in the position of the dotted

lines after my improved washing-machine is detached from it and when in the position as shown in solid lines is adapted to support a washing-tub in which the clothes to be washed are placed, and the two machines are so closely connected that the operators can pass the clothes through the washing-machine and, further, at the same time through the wringer. The clothes are thus kept moving until the dirt is extracted, when a fresh supply of water is provided, and the rinsing is performed in about the same process or movements. It will be further observed that I can employ two washing-tubs by setting one on each side of my wringer, so that as the clothes pass through the wringer after leaving the tub where the washing is done they will fall into the other tub or into a clothes-basket, as may be desired. My wringer referred to is provided with watersheds (not shown in this illustration) to drain the waste water back into the tubs on each side of the wringer.

With the above description I will now proceed to further describe my invention by referring to corresponding numerals on the drawings and specification, in which—

1 is a fluted roller, which is mounted on a horizontal shaft 2, said shaft being provided with a crank 3. Immediately under said roller 1 is a suitable number of small rollers 4. Said small rollers are of even length to the fluted roller and are pivotally mounted in suitable carriages or supports 5. Longitudinally passing through said carriages are two securing-bolts 6. These bolts are adapted to hold the two roller-carriages in proper relation to the small rollers, so that the pivotal ends of the rollers 7 will retain their engagement in the openings through said carriages, as shown.

I have further provided right-angled seats or stirrups 8, one end of which is pivotally secured to a block 9 and the opposite or lower end is secured to the carriages 5. By this means the rollers will attain a creeling movement, and when the clothes are passing through between the fluted roller and the smaller rollers if there should be lumpy places on the clothes as they pass through the machine will readily adjust itself and admit of the

lumpy places passing through between the rollers without clogging the machine.

I have further provided extension-arms 9^a. About midway of their length is a slot 10. (Clearly indicated at Fig. 7.) At the outer end of said arms is a support or rod 11. At the opposite or lower ends of said arms I have provided a bed portion 12, rigidly secured to said arms. Said bed portion is arranged for adjustment so that it can be contracted or distended, as circumstances may suggest. In order to effect this adjustment, I have provided elongated openings or slots 13 through the middle piece of the bed 12, and slidingly secured to the middle piece of said bed portion is a slat or strip 14. Passing through this slat and through the elongated openings are bolts 15, provided with thumb-screws 16. The object of this adjustment to said bed portion is that it can be adjusted to fit the top of a larger or smaller tub, as indicated at Fig. 8.

I have further provided two arms 17, pivotally secured to the extended arms 9^a. The object of these arms is to carry the fluted roller 1, which is pivotally secured thereon at 19.

I have further provided coiled extension-springs 20, one of which is secured to each side of the machine under the arms 17, one end of which is secured under the bearing of roller-shaft 2 at 21. The inner end of said spring is provided with a hook and thumb-screw 22, attached to the extended arm 9. The object of these tension-springs is to give a proper tension to the rollers as the clothes pass between them.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a washing-machine of the character described, of a pair of extended arms, a support mounted in the outer end of said arms, a bed portion secured to the opposite end there-

of, pivotal arms mounted to the extended arms, a fluted roller carried by said pivotal arms, blocks 9 secured to the bed portion, roller-carrying supports mounted to said blocks, substantially as described. 45

2. In a washing-machine of the character described of extended arms, pivotal arms mounted to the extended arms a roller carried by the pivotal arms, an adjustable bed portion secured to the extended arms adapted to be longitudinally adjusted, substantially as described. 50

3. In a washing-machine of the character described, of a pair of extended arms, a supporting-roller secured to the outer end of said arms, a bed portion secured to the opposite end, pivotal arms secured to said extended arms, a roller carried by said pivotal arms, a pair of blocks mounted on said bed portion, a series of rollers mounted to said blocks in close proximity to the fluted roller, tension-springs engaging the pivotal arms and the extended arms, substantially as described. 55

4. In a washing-machine, the combination of a pair of extended arms, a support carried by said arms at one end and an adjustable bed portion secured to the opposite end, supporting-blocks secured to the bed portion, roller-carrying supports mounted on said supporting-blocks, pivotal arms secured to the extended arms, a fluted roller carried by said pivotal arms and adapted to correspondingly engage a tier of rollers mounted in the roller-carrying supports, and means for producing an adjustment of the bed portion, substantially as described. 70

In testimony whereof I affix my signature in the presence of two witnesses. 80

ROSS C. BEEKMAN.

Witnesses:

H. A. TINGLE,
JAMES F. YEAGER.