

W. SIAS.
Washing-Machine.

No. 219,534.

Patented Sept. 9, 1879.

Fig. 1.

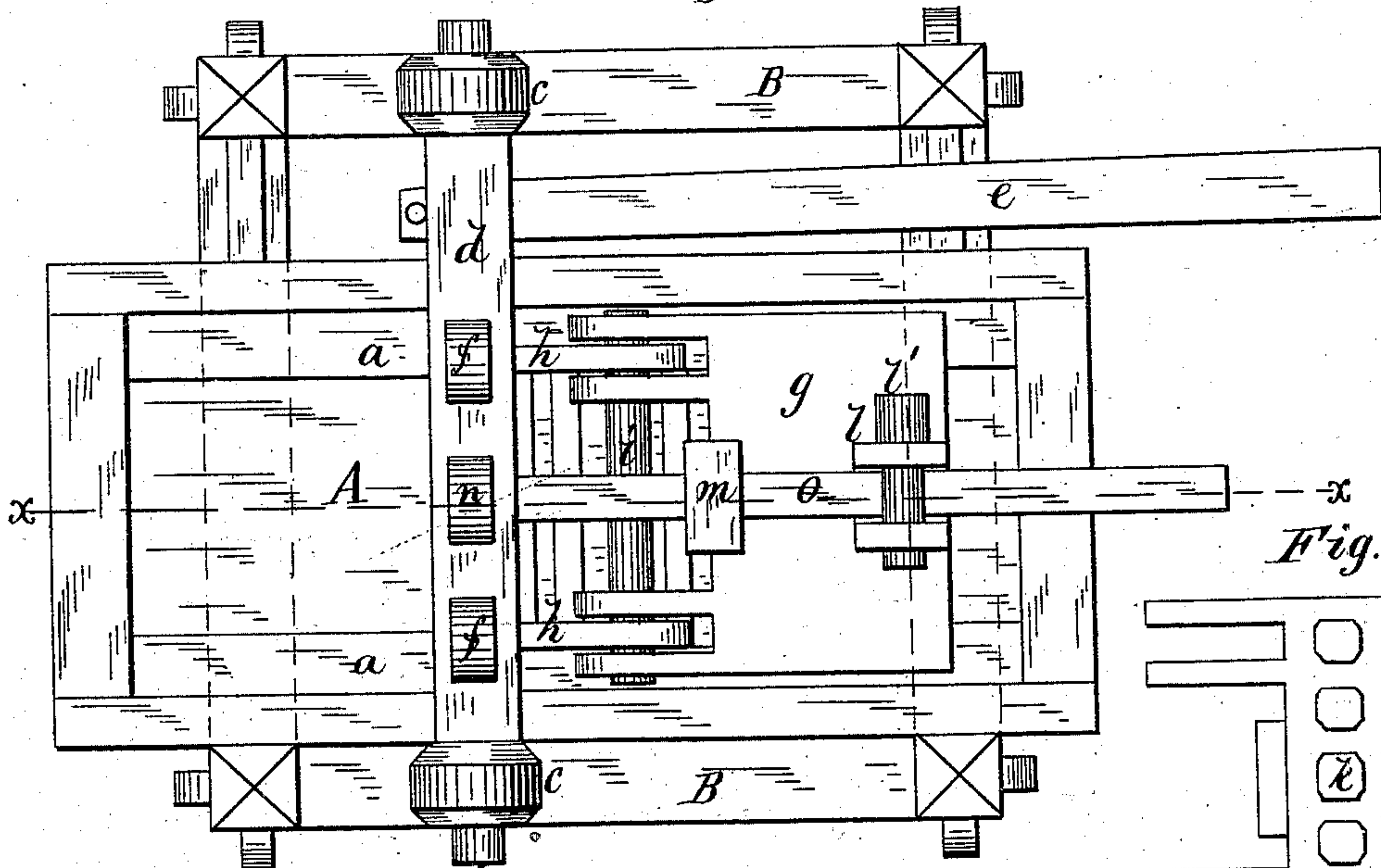


Fig. 3.

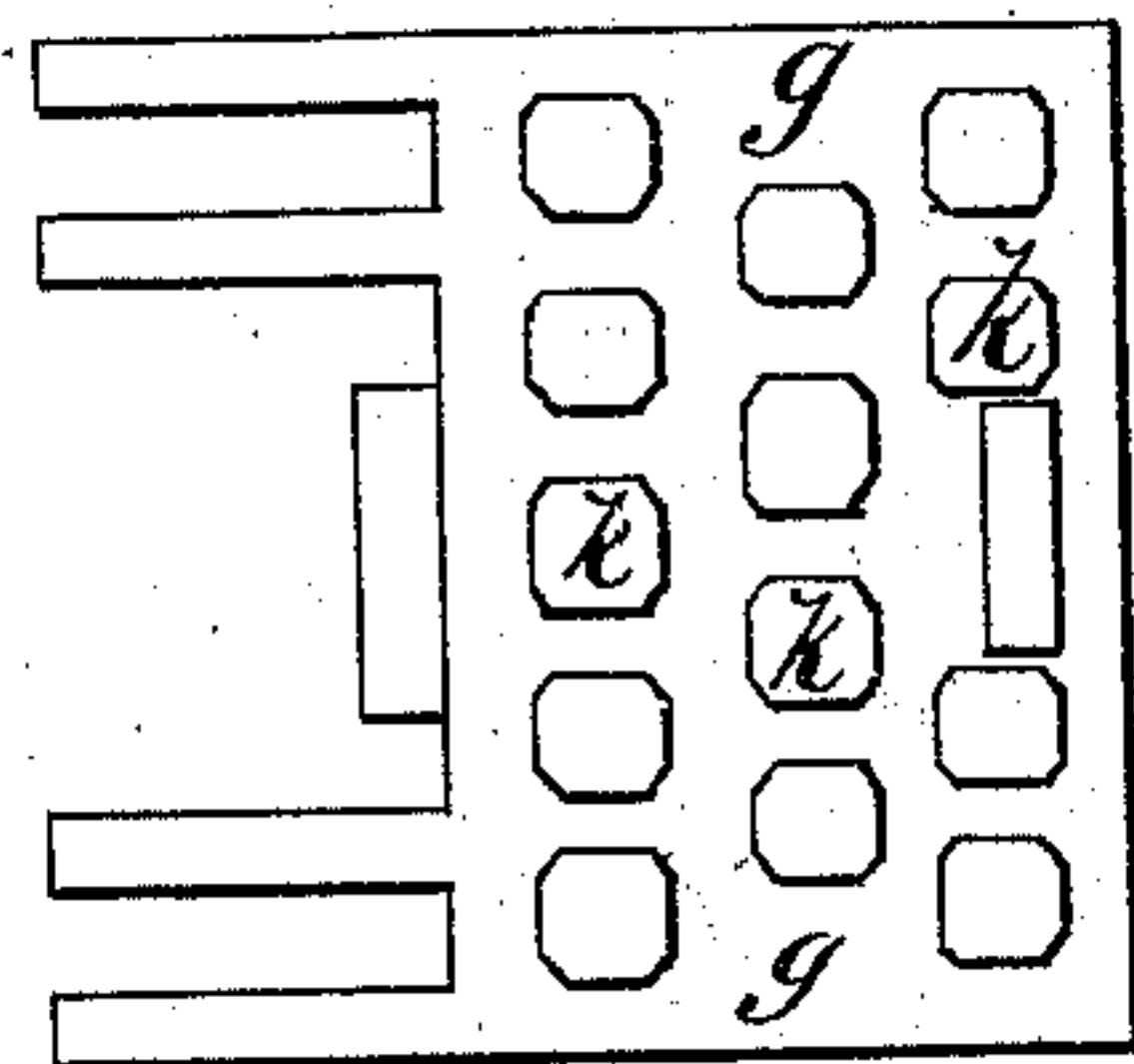
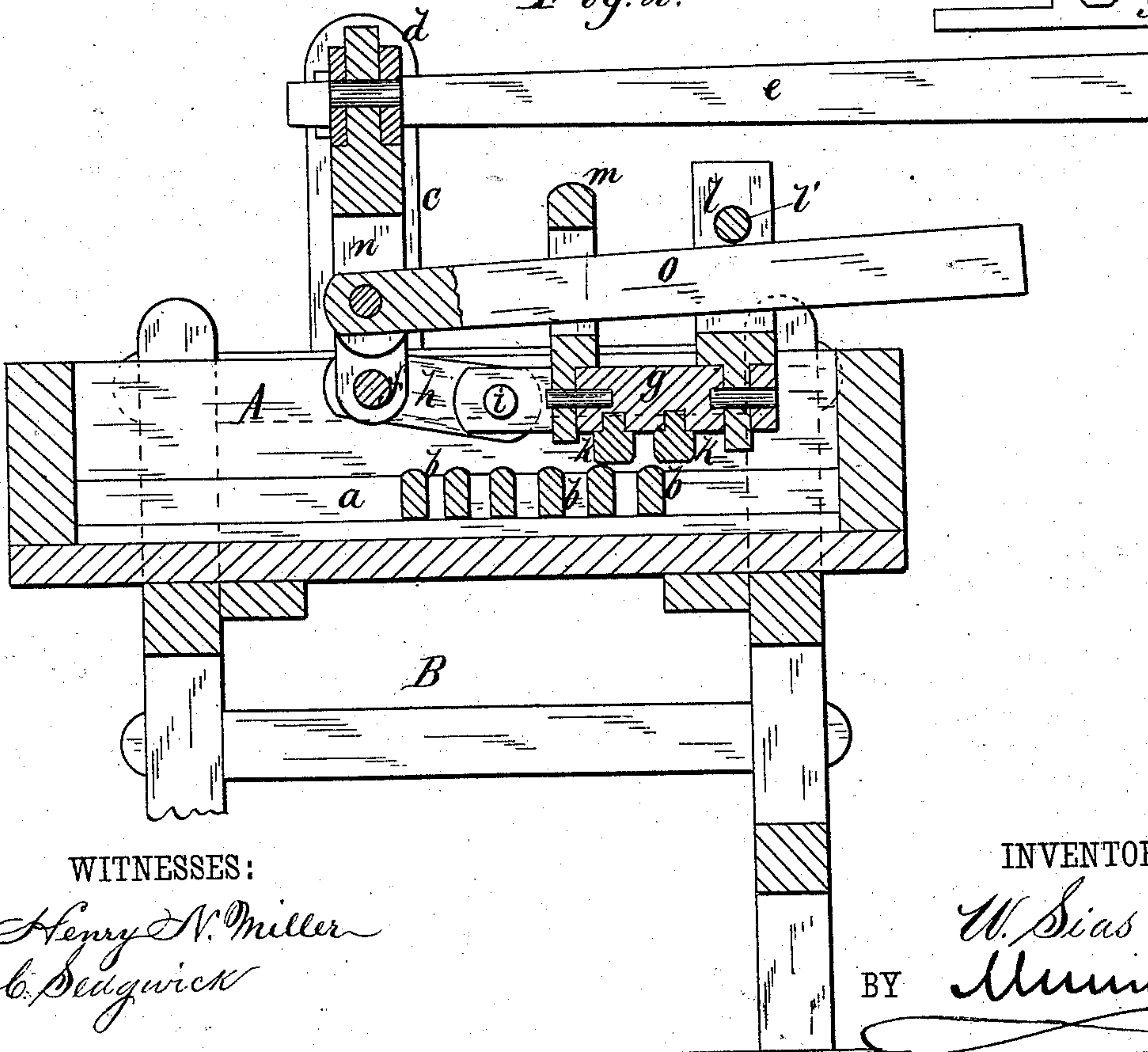


Fig. 2.



WITNESSES:

Henry N. Miller
C. Sedgwick

INVENTOR:

W. Sias
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM SIAS, OF WEST CLAREMONT, NEW HAMPSHIRE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **219,534**, dated September 9, 1879; application filed April 17, 1879.

To all whom it may concern:

Be it known that I, WILLIAM SIAS, of West Claremont, in the county of Sullivan and State of New Hampshire, have invented a new and Improved Washing-Machine, of which the following is a specification.

In the drawings, Figure 1 is a plan view, and Fig. 2 is a vertical longitudinal section on line *x x* of Fig. 1, of my improved machine. Fig. 3 is an inverted plan view of the rubber.

Similar letters of reference indicate corresponding parts.

My invention consists in a general combination and arrangement of the parts, all of which will be particularly described in connection with the drawings.

In the drawings, A is an oblong tub of suitable size, set upon a frame, B, at a height for convenient operation of the machine.

Near the bottom of tub A is fitted a wash-board, that consists of side bars, *a*, and cross-bars *b*, the latter being set a short distance apart and formed with rounded upper edges.

Upon frame B, at the opposite side of tub A, are standards *cc*, that carry a rock-shaft, *d*, and projecting horizontally from shaft *d* is a hand-lever, *e*, by which the shaft is to be operated.

From the under side of shaft *d* arms *ff* depend, and to the arms *f* the rubber *g* is connected by pivoted links *h h*.

The rubber *g* (shown separately in Fig. 3) consists of a flat piece of wood formed at one edge with slotted lugs for attachment of links *h* by means of a cross-pin, *i*, and fitted at its under side with numerous projecting fingers *k*. Attached upon the upper side of the rubber *g* is a slotted standard, *l*, and a second standard, *m*, that is formed with an aperture in line with the slot in standard *l*.

From a central hanger, *n*, of shaft *d* a

pivoted hand-lever, *o*, extends horizontally through the standards *l m*, and is prevented from rising in standard *l* by a pin, *l'*, which can be removed for disconnecting the parts.

The machine is used as next described.

The clothes will be placed on the bars *b* and a suitable amount of water put in the tub. By raising the levers *e* and *o*, the rubber *g* is lifted from the tub to permit the placing of the clothes. The rubber is then let down, and the clothes will be held between the fingers *k* and the bars *b*, and the operation of lever *e* up and down will cause a reciprocation of the rubber and a rubbing action on the clothes. More or less pressure can be applied by means of lever *o*. The action will be similar to hand-washing, and the bars *b* being raised above the bottom of the tub the dirt settles at the bottom, and will not be rubbed again in the clothes after being washed out.

The tub A is narrower than the frame B, and the lever *e* is connected to shaft *d* outside of the tub, so as to give more room for operation of the lever, and by lowering lever *e* to rest upon the cross-bars of the frame the rubber *g* will then be moved to the back end of the tub, so as to give access to the wash-board and the clothes.

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

The rubber *g*, links *h*, arms *f*, rock-shaft *d*, and lever *e*, in combination with the slotted standards *l m*, pin *l'*, hanger *n*, and lever *o*, all constructed and arranged substantially as shown and described.

WILLIAM SIAS.

Witnesses:

SAML. G. JARVIS,

WILLIAM HENRY SIAS.