W. PAVLIK.

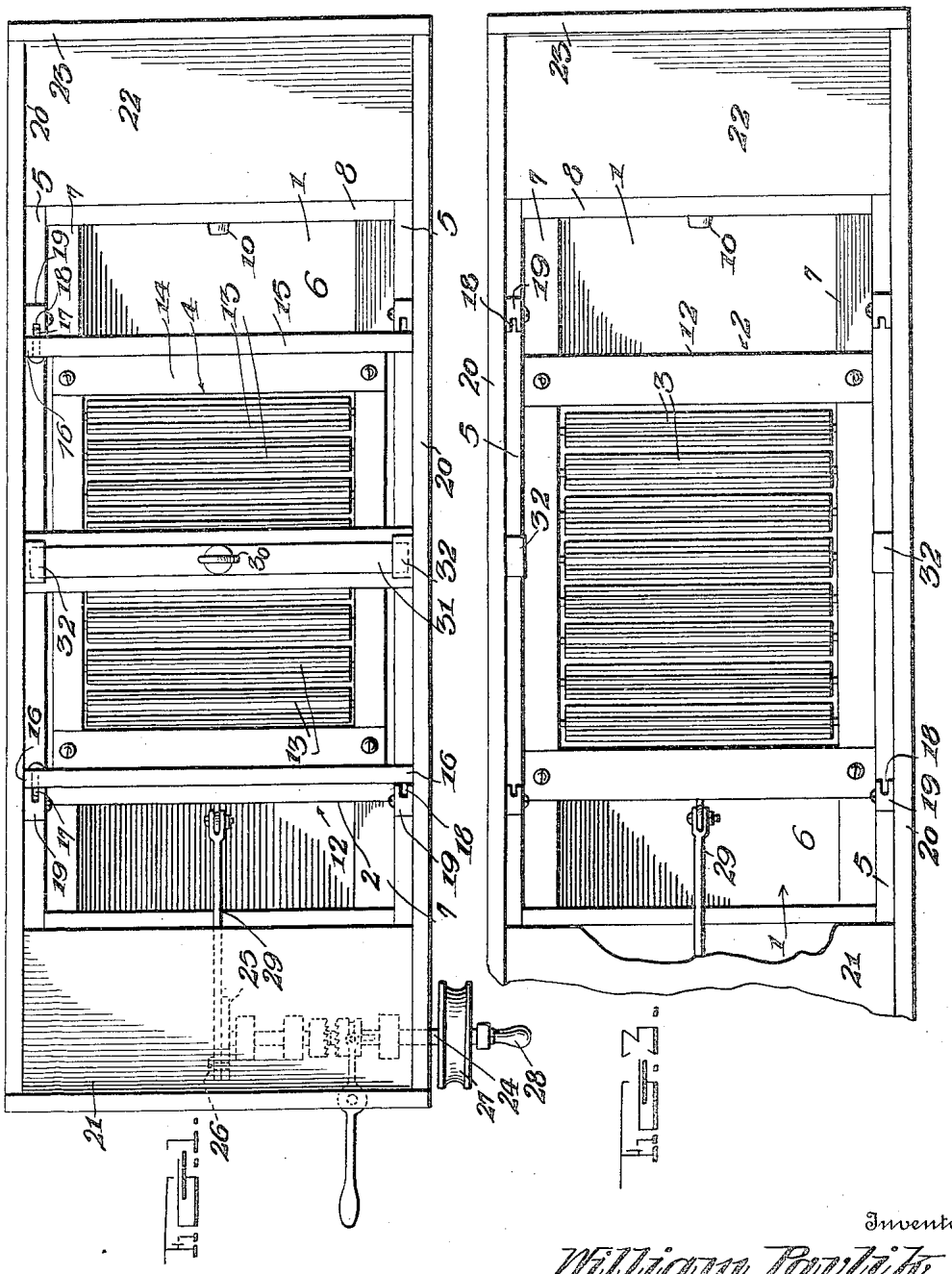
WASHING MACHINE.

APPLICATION FILED APR. 20, 1914.

1,134,409.

Patented Apr. 6, 1915.

2 SHEETS—SHEET 1.



Witnesses

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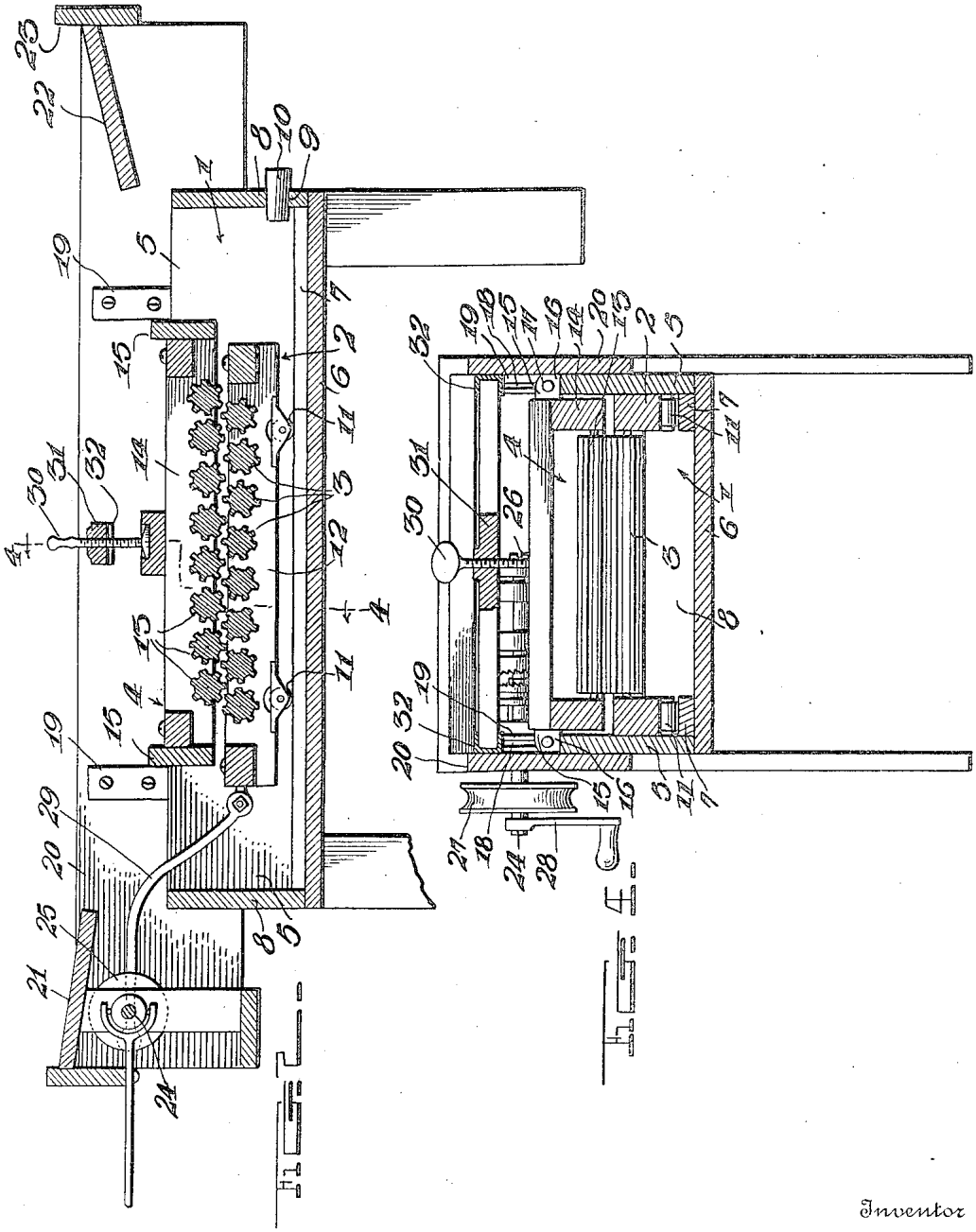

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UNITED STATES PATENT OFFICE.

WILLIAM PAVLIK, OF BAYPORT, NEW YORK.

WASHING-MACHINE.

1,134,409. Specification of Letters Patent. Patented Apr. 6, 1915.

Application filed April 20, 1914. Serial No. 833,286.

To all whom it may concern:

Be it known that I, WILLIAM PAVLIK, a citizen of the United States, residing at Bayport, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in washing machines and has for its primary object to provide a device of this character which may be advantageously and inexpensively constructed and which will effectually perform the functions for which it is designed.

In carrying out the above end, I employ a washing receptacle having a pair of guide tracks on its bottom, a reciprocating carriage mounted on said tracks and carrying a number of corrugated rollers, means for reciprocating said carriage, a wash board above the carriage, and means whereby said wash board may be swung upwardly.

A secondary object of the invention is to construct the device in such a manner as to obviate the necessity of placing various operating elements within the washing receptacle.

Still another object is to construct the mounting for the wash board in such a manner as to allow the same to be vertically adjusted and to be swung upwardly from any one of its adjusted positions.

With the above objects in view, the invention resides in certain novel features of construction and combination herein described and claimed, and shown in the drawings wherein:

Figure 1 is a top plan view of my improved washing machine; Fig. 2 is a central vertical longitudinal section; Fig. 3 is a partial plan view with the washing board removed; and Fig. 4 is a transverse section taken upon the line 4—4 of Fig. 2.

In the accompanying drawings, I have shown my invention as comprising in general, a washing receptacle 1, a reciprocating carriage 2 therein and having a number of corrugated rolls 3, a wash board 4 above said carriage and means whereby the wash board may be adjusted vertically and swung upwardly from any one of its adjusted positions.

The washing receptacle 1 is preferably of rectangular shape and is provided at the juncture of its longitudinal side walls 5 and its solid bottom 6 with a pair of guide rails or tracks 7. The end walls 8 of the receptacle need not be mutilated in any respect, on account of the construction to be hereinafter described. It is essential, however, that a suitable discharge opening 9, closed normally by a plug 10, be provided at a suitable point for discharging the washing fluid from said receptacle. The tracks 7 are designed for co-action with anti-friction rollers 11 carried by the four corners of the carriage 2, said carriage being here shown as comprising a rectangular frame 12, and a plurailty of corrugated rolls 3, above mentioned. The rolls are so mounted that their upper surfaces project above the frame 12 for coaction with similar rolls 13 which are carried revolubly by the wash board 4, said board being here shown as constructed similarly to the carriage 2 and comprising a rectangular frame 14 and the rolls 13. The opposite ends of the frame 14 are provided with transversely extending strips 15 whose upper corners project outwardly and overlie the upper edges of the side walls 5, as indicated at 16. The projections 16, at one side of the frame 14, are provided with pivot studs 17 which extend outwardly and longitudinally from said frame and are adapted for engagement with slots 18, which are formed in a number of guide blocks 19, the latter rising from the upper edges of the walls 5 and being here shown as supported by longitudinal strips 20 which serve to increase the height of the machine, the opposite ends of said strips being provided with inclined rests or shelves 21 and 22, said shelves having their inner edges overlying the receptacle 1, while the outer edge of the shelf 22 is provided with a transverse ledge 23 to which a wringer (not shown) may be attached. The shelf 21 is primarily intended for the reception of articles to be washed, while the shelf 22 is provided for the reception of said articles after washing, and before wringing the same.

For the purpose of reciprocating the carriage 2, I provide a transverse shaft 24

which is revolubly mounted beneath the platform 21 and is provided on its inner and outer ends, respectively, with a disk 25, having a wrist pin 26 and with a grooved pulley 27 and a crank 28. The wrist pin 26 is connected with the frame 12 by means of a link 29, said link being curved upwardly throughout the major part of its length in order to allow the same to clear the upper edge of the end wall 8 at this end of the machine. As clearly shown in the drawings, the connection of the link 29 with the wrist pin and with the carriage 2, is such as to allow the proper movement of the various moving parts. By the provision of the grooved pulley 27 and the crank 28, the machine may be driven either by mechanical or hand power.

In the operation of the device, the wash board 4 is either entirely removed or swung upwardly around its pivot studs 17 and the articles to be washed are then placed upon the rolls of the carriage 12, the receptacle 1 having previously been filled with a suitable washing and cleansing fluid. The board 4 is now returned to its normal position and is preferably forced downwardly by means of a thumb screw 30 which is carried by a removable transverse bar 31, the ends of the latter being engaged with suitable keepers 32 carried by the longitudinal strips 20. The carriage 2 may now be reciprocated by any suitable means and the cleaning operation will take place.

It is to be noted that a pair of guide blocks 19 is provided on each side of the machine, this provision being made in order that the wash board 4 may be positioned to be swung upwardly to either side of the machine.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that I have produced a comparatively simple washing machine, yet one which will be highly efficient in operation and which may be easily and inexpensively manufactured.

I have described my invention with considerable minuteness, but I do not wish to be limited to details, other than those amplified in the appended claim.

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

A washing machine comprising a rectangular washing receptacle, spaced upright guides rising from one side of the receptacle, a reciprocating carriage in the receptacle and having a scrubbing surface, a rectangular wash board above the carriage, lateral stops on the four corners of the board and adapted to limit the downward movement thereof, and pivot studs projecting longitudinally from two of the stops and engaged with said guides, whereby the board may be moved vertically or swung around its pivots.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM PAVLIK.

Witnesses:
WILLIAM H. STUART,
FRANK ROGERS.