

W. F. Witte,

Washing Mach.

No. 107,430.

Patented Sept. 13. 1870.

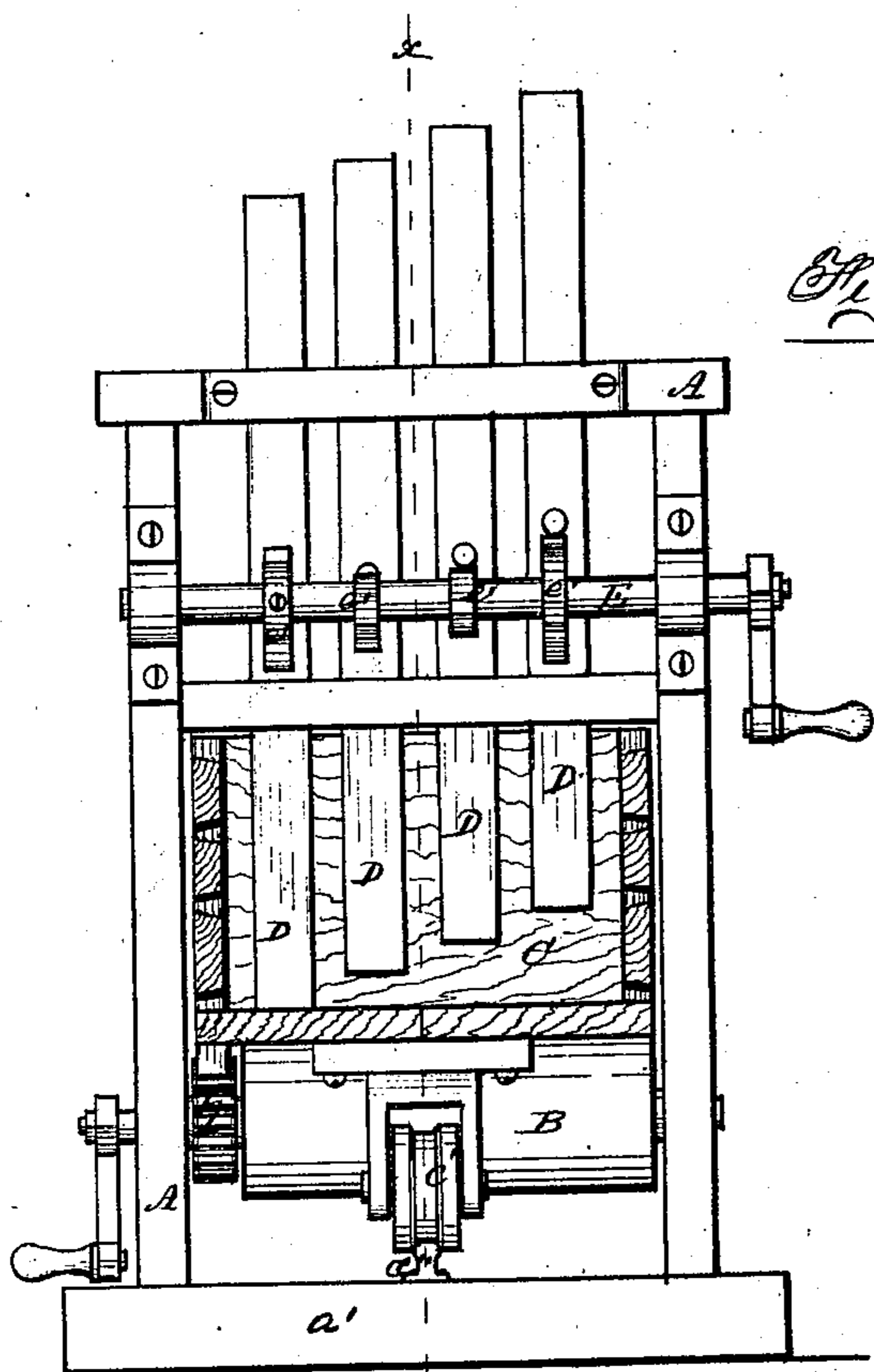


Fig. 1.

Witnesses:

Chas. H. Morrison

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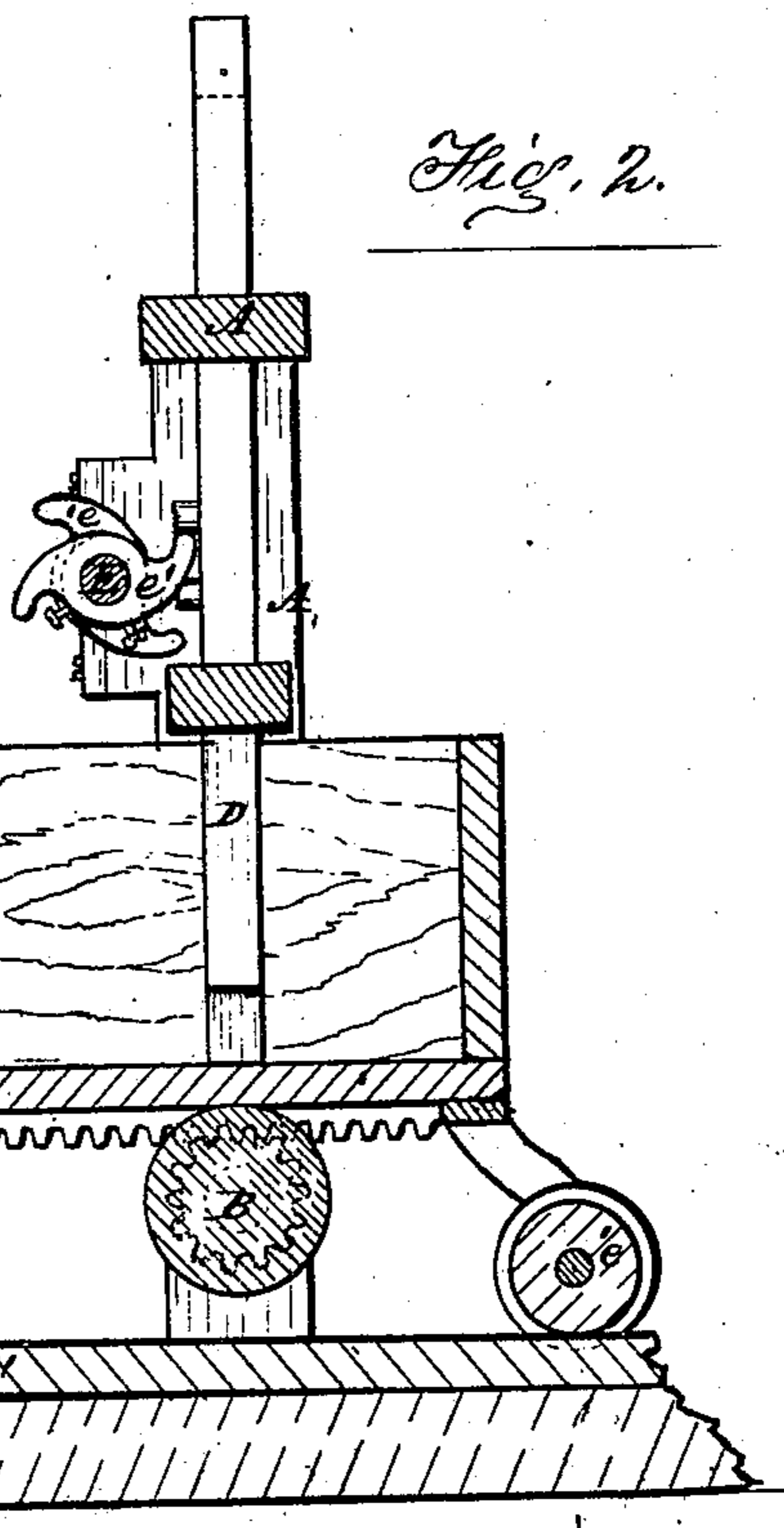


Fig. 2.

Inventor =

W. F. Witte

United States Patent Office.

WILLIAM F. WITTE, OF WHITEMARSH, ASSIGNOR TO CHARLES ROBBINS,
OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 107,430, dated September 13, 1870.

IMPROVED WASHING-MACHINE FOR WASTE, &c.

The Schedule referred to in these Letters Patent and making part of the same.

I, WILLIAM F. WITTE, of Whitemarsh, in the county of Montgomery and State of Pennsylvania, have invented certain Improvements in Machines for Washing and Cleansing "Waste," and other fabrics, of which the following is the specification.

Nature and Objects of the Invention.

My invention relates to the combination, with a series of vertically-moving beaters, of a horizontally-reciprocating oblong box, and a roller to support the same, at a point directly beneath the beaters, in such a manner that, during the operation of the machine, the part of the bottom of the box which is passing at any time under the series of beaters will be firmly supported by the roller, the object of my invention being to afford a more substantial and effective machine for removing the oil and dirt from the waste fabric used in machine-shops and railway-depots, and for washing or cleansing other fabrics in a more thorough and expeditious manner than heretofore.

Description of the Accompanying Drawing.

Figure 1 is an end elevation of my said improved machine, having the fronting end of the reciprocating box removed, for the purpose of showing the interior thereof.

Figure 2 is a vertical longitudinal section of the same machine, on the dotted line *x y* of fig. 1.

General Description.

A is an upright frame, which is erected across a suitable platform, *a'*, having a track-rail, *a''*, fixed along in its middle.

At a short distance above the platform, the roller B is supported on strong journals, which have their bearings in the two uprights of the frame A, and fixed on one of the journals is a pinion, *b'*.

The vessel for containing the fabric to be cleansed is an oblong rectangular box, C, which is arranged to pass freely backward and forward longitudinally between the two uprights of the frame, while bearing mainly upon the roller B, its two ends being kept up at or nearly to the same height by means of a grooved wheel, *c'*, under each, which rolls upon the track *a''*.

Along the bottom edge of one side of the box C a rack-bar, *c''*, is fixed, which gears into the pinion *b'* of the roller B, so that longitudinally-reciprocating mo-

tions will be given to the box C by rotating the roller B alternately in opposite directions.

The beaters D D are arranged and supported to slide freely up and down, in a line across the bottom of the box, directly above the roller B.

Motion is given to the beaters successively by means of respective lifting-toes *e' e'*, fixed on the crank-shaft E, whereby, as the toes are carried around, the beaters are successively lifted up and let fall upon that part of the bottom of the box C which is supported directly by the roller B.

The operation of the machine is as follows:

The fabric to be washed and cleansed is placed on the bottom of the box A, with a sufficiency of water, and, if desired, any suitable alkaline salt or soap, and simultaneous motion then given to the box and the beaters, so that, as the box is moved along backward and forward, the beaters fall successively and rapidly upon the fabric, from end to end of the box, the roller B supporting that part of the bottom of the box which is directly under the beaters.

Steam power is intended to be applied to operate the large machines required for washing and cleaning the oily waste fabric of machine-shops and railway-locomotive stations.

It will be understood, without further description, that the beaters D D will operate upon every part of the fabric distributed over the bottom of the box C, and with an effectiveness proportioned to their weight, and that, as the roller B will always support that part of the bottom of the box which is passing under the beaters, the momentum of the latter will be prevented, by the said roller, from injuring the said box.

Claim.

I claim as my invention—

The horizontally-reciprocating box C and supporting roller B, in combination with the series of vertically-moving beaters D, the said parts being arranged to operate together, substantially as and for the purpose hereinbefore set forth.

W. F. WITTE.

Witnesses:

BENJ. MORISON,
WM. H. MORISON.