J. W. SHEETZ.

Combined Washer and Wringer.

No. 205,003. Patented June 18, 1878.

Fig. 1

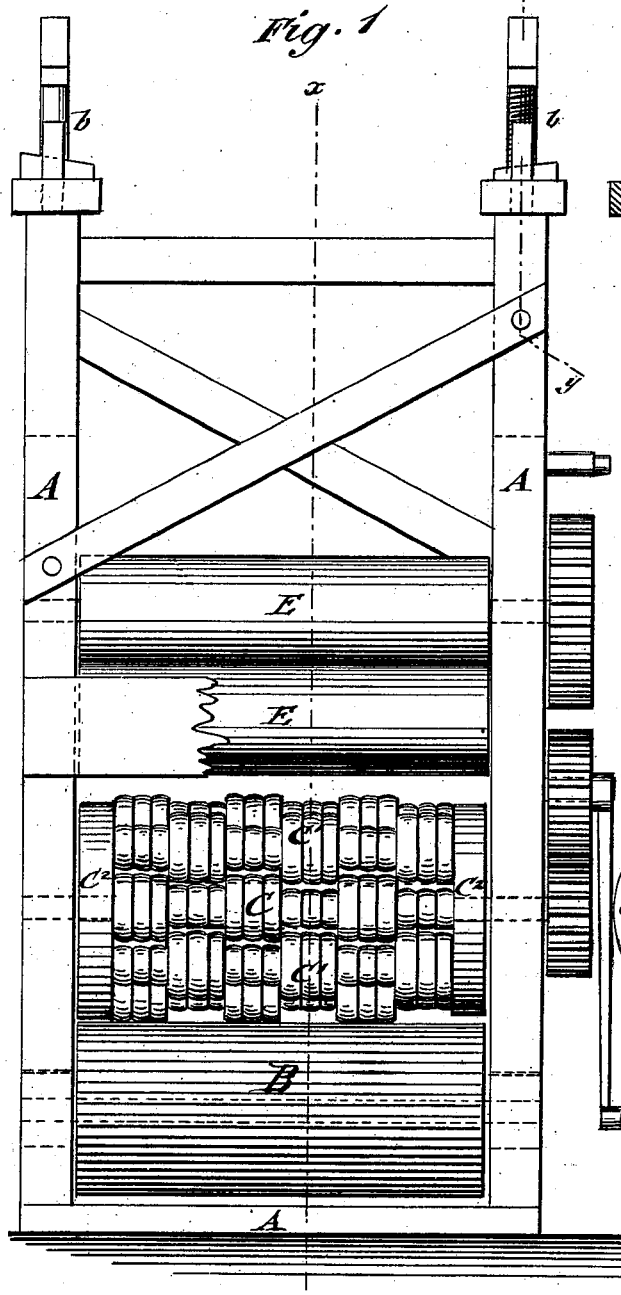

Fig. 2

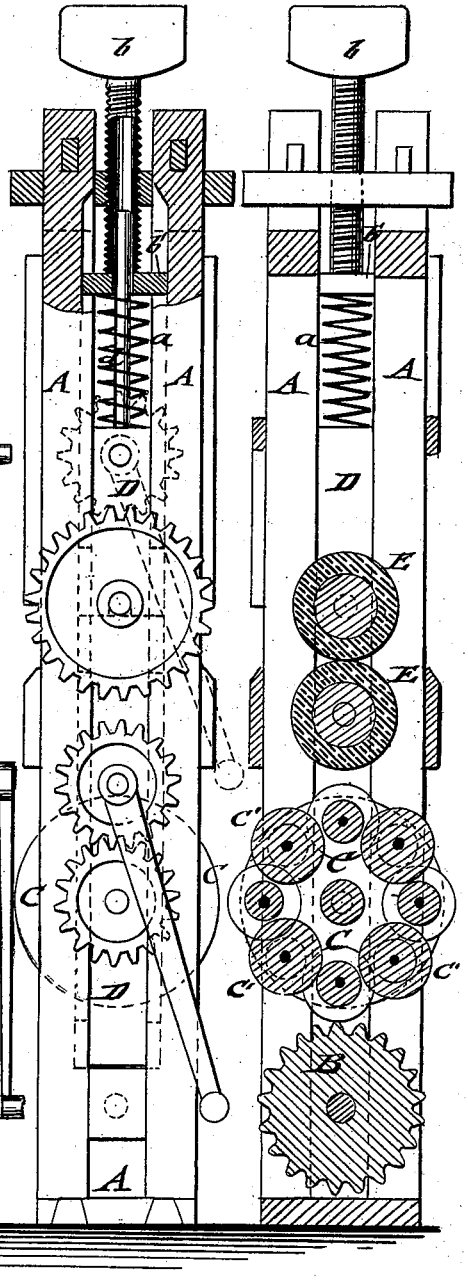

Fig. 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES W. SHEETZ, OF WOODSTOCK, VIRGINIA.

IMPROVEMENT IN COMBINED WASHER AND WRINGER.

Specification forming part of Letters Patent No. **205,003**, dated June 18, 1878; application filed February 20, 1878.

To all whom it may concern:

Be it known that I, JAMES W. SHEETZ, of Woodstock, in the county of Shenandoah and State of Virginia, have invented a new and Improved Combined Washer and Wringer, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a front elevation of my improved washing and wringing machine. Fig. 2 is a side elevation, partly in section, on line *y y*, Fig. 1; and Fig. 3, a vertical transverse section of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention has reference to an improved washing and wringing machine by which the clothes may be cleaned in a superior manner, as the machine admits the effective cleansing of the dirtier parts without rubbing the cleaner ones, and by which the clothes, after being cleaned, are also wrung out.

The invention consists in the construction and combination of parts, which will be hereinafter more fully described, and then set forth in the claim.

By referring to the drawings, A represents the supporting-frame of my improved washing and wringing machine. B is a fluted roller that is arranged at the lower part of the frame in stationary bearings. It is acted upon by a revolving rubbing-roller, C, that is constructed of a number of independent sections, C^1, which turn in fixed end disks C^2.

The revolving sections are made of rubber, wood, and other material, each being composed of alternating larger and smaller portions that are ribbed at their circumference, so that the roller-sections exert a varying pressure and influence upon the fabrics passed through between them and the lower fluted roller.

The construction of the rubbing-roller C in separately-revolving roller-sections admits of any part of the fabric being held in the machine and rubbed as long as desired, so as to enable the cleansing of dirtier parts without unnecessarily rubbing parts already cleaned.

The ribbed roller-sections exert greater friction than smooth rollers, and effect the washing of the clothes in less time.

The rollers B and C are revolved by suitable gear-wheels and hand-crank. Gear-wheels of various sizes may be used interchangeably for changing the rate of speed of the rollers. The pressure of the rubbing-roller and fluted roller is regulated by means of spiral springs *a*, bearing on the sliding journal-blocks D, that are guided in the side standards of the frame A.

Two wringing-rollers, E, are arranged above the rubbing-roller and revolved by separate gear-wheels, so that when the clothes have been passed through the lower washing-rollers they may be thoroughly wrung out in the upper rollers. One wringing-roller turns in the slide-block of the rubbing-roller, the other in a top box independently therefrom, both boxes being acted upon by the same pressure-springs *a*, which are adjusted by hollow top screws *b*, that bear on the sliding top blocks *b'*.

Extension-pins *d* of the upper slide-blocks enter into the cavity of the screws for the purpose of steadying the blocks. As the sliding journal-block D is made of two pieces and one of the rollers of the wringer fixed and the other movable in the same, the pressure-springs answer for both machines, which are used successively by simply removing the crank from the washer and placing it on the shaft of the wringer-gear, so that the wringer-rollers may be used in a convenient manner when the washing-rollers are not in use.

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

In a washing and wringing machine combined, the slide-blocks of the washing and wringing rolls, of which the upper independent blocks have central guide-pins, in combination with pressure-springs, top blocks, and hollow set-screws, so as to adjust jointly the pressure of both washing and wringing rolls, substantially as specified.

JAMES WILLIAM SHEETZ.

Witnesses:
E. E. STICKLEY,
L. S. WALKER.