(No Model.)

E. C. STANBROUGH.

COMBINED WASHING AND WRINGING MACHINE.

No. 339,230. Patented Apr. 6, 1886.

Fig. 1.

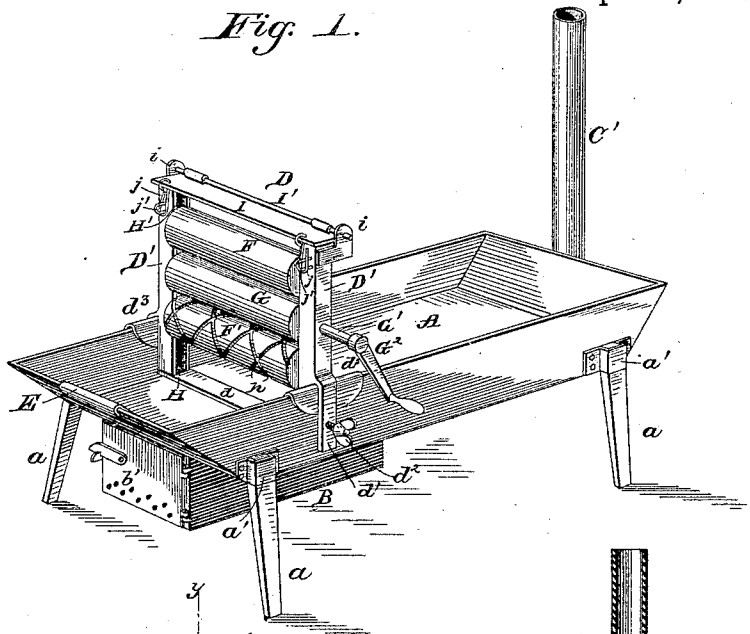


Fig. 2.

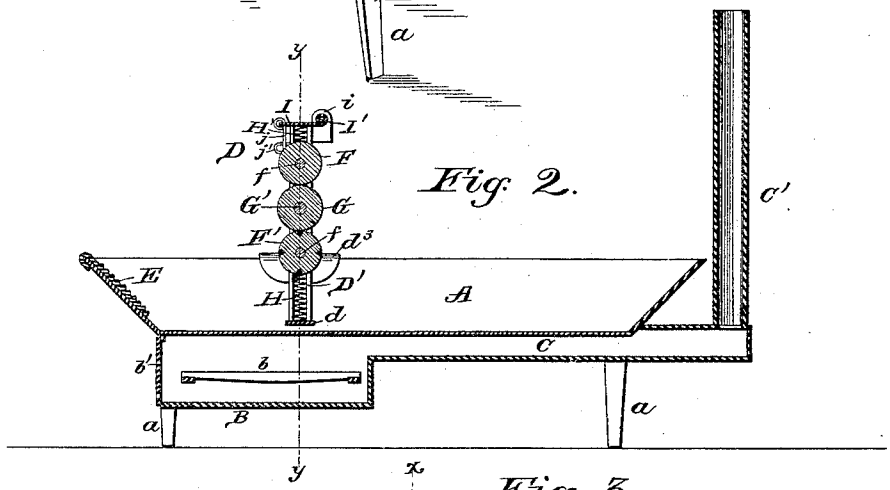
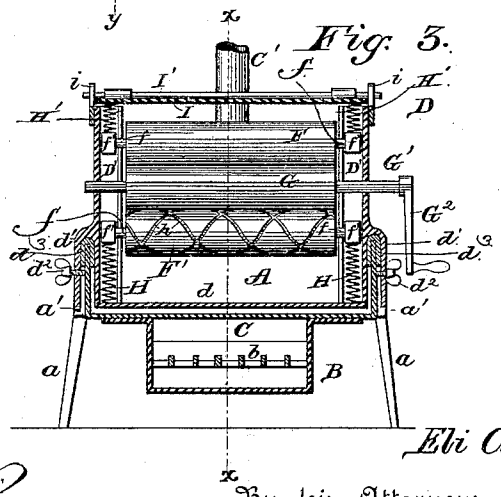


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

ELI CAREY STANBROUGH, OF LEAD HILL, ARKANSAS.

COMBINED WASHING AND WRINGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 339,230, dated April 6, 1886.

Application filed November 27, 1885. Serial No. 184,114. (No model.)

To all whom it may concern:

Be it known that I, ELI CAREY STANBROUGH, a citizen of the United States, residing at Lead Hill, in the county of Boone and State of Arkansas, have invented a new and useful Improvement in Combined Washing and Wringing Machines, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in combined washing and wringing machines; and the novelty consists of the peculiar construction, combination, and adaptation of parts, substantially as hereinafter fully set forth, and specifically pointed out in the claim.

The invention has for its object the provision of a machine of the class named which can be used in the open air for boiling and washing clothing and other fabrics, and for wringing the same after the washing thereof has been completed; to provide the washing-machine receptacle with means whereby the water therein can be very readily heated, and to provide means whereby the pressure of the wringing-rollers can be very readily regulated.

In the accompanying drawings, Figure 1 is a perspective view of my improved machine. Fig. 2 is a vertical longitudinal sectional view on the line *x x* of Fig. 3, and Fig. 3 is a cross-section through the machine on the line *y y* of Fig. 2.

Referring to the drawings, in which like letters of reference indicate like parts in all the figures, A designates the receptacle of my improved washing-machine, preferably constructed of metal and rectangular in form, and supported upon legs or standards *a*. The receptacle may be made entirely of metal; or the bottom thereof only may be of metal and the side walls of wood or other preferred material; and the legs *a* of said receptacle may be secured detachably in brackets *a'*, to permit of their ready removal when desired.

B designates the fire-box, arranged on the under side of and suspended from the receptacle A at one end thereof, said fire-box having a grate, *b*, arranged above its bottom, to form a combustion-chamber and ash-pit, and further provided with a hinged door, *b'*, which is perforated at its lower edge for the admission of air to support combustion.

C designates the conduit for the smoke and other products of combustion, said conduit communicating with the fire-box at one end and extending along the receptacle and suspended therefrom, the free end of the conduit having a chimney, *c'*. By this arrangement the waste heat of the smoke and products of combustion is utilized to heat the water in the receptacle, thus increasing the efficiency of the machine.

The wringing-machine D comprises two standards, D', which are made hollow and connected at their lower ends by a cross-bar, *d*, each standard having an outwardly-bent arm, *d'*, at its lower end, which carries a set-screw, d^2, the standard being further provided with a bearing-plate, d^3. The standards are arranged within the receptacle, and the arms *d'* thereof are arranged on the outer face of the receptacle, while the plates d^3 fit over the upper edges of the receptacle. The set-screws d^2 are turned so as to bear against the side walls of the receptacle, and by this peculiar construction and arrangement of parts the wringing-machine is detachably secured to the washing-receptacle.

E designates a rubbing-board secured to one of the end walls of the receptacle A, by means of which the clothing or fabrics can be conveniently rubbed by hand.

The wringing-machine frame is of a width corresponding to that of the receptacle A, and said frame can be adjusted back and forth on the receptacle longitudinally thereof, so as to bring the wringing apparatus nearer to or farther from the rubbing-board E, within convenient reach of the operator or out of his way.

F F' designate the upper and lower rollers of the wringing-machine, and G designates the driving-roller, arranged between the upper and lower rollers. (See Fig. 3.)

The shaft G' of the intermediate driving-roller, G, is journaled in the side walls of the hollow standards D', or in proper bearings secured rigidly to said standards, and one end of the said shaft is extended beyond the standards and provided with an operating crank-handle, G^2, for its convenient manipulation by hand.

The shafts *f* of the upper and lower rollers, F F', are journaled in proper bearings or boxes,

f', arranged between or in the hollow standards D', so as to slide freely therein in a vertical plane.

The lower roller, F', is grooved spirally, as shown at *h*, and normally pressed upward in contact with the intermediate driving-roller, G, by springs H, arranged in the hollow standards D', and the upper roller, F, is normally pressed downward in contact with the driving-roller by means of similar springs, H', also located in the hollow standard D'. (See Fig. 3.)

The upper ends of the springs H' bear against a lid or cover, I, common to both of the standards D', extending from one to the other thereof at their upper ends, and secured to a rod, I', that is supported in lugs *i*, secured to the standards D'. The lid or cover I can be turned in a vertical position, to release the tension of the springs H' on the upper vertically-adjustable roller, F, and when it is desired to exert tension on the said roller the lid or cover I is turned to a horizontal position, and the latches *j* thereof engage catches *j'* on the standards D', by means of which the lid or cover is secured in its horizontal position. It will thus be seen that when the intermediate roller, G, is rotated by hand, or otherwise, the rollers F F' will also be operated in the reverse direction to wring the clothes, and that said rollers F F' will yield when a large mass of clothing is passed between the same.

When the clothing or other fabrics are to be boiled, a cover of any suitable construction is placed over the receptacle A, as is obvious.

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

The combination, with the receptacle A, having its side walls of uniform width, of a wringing attachment mounted on the side walls and adjustable longitudinally thereof, hollow uprights D', upper and lower adjustable rollers mounted in the standards, an intermediate driving-roller, springs for normally pressing the adjustable rollers in contact with the driving-roller, and a hinged flap for bearing against and releasing the tension of the springs of the upper roller, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ELI CAREY STANBROUGH.

Witnesses:

W. A. WATKINS,

J. G. BEARD.