

W. W. Hollman,

Mangle,

N^o 25,413.

Patented Sep. 13, 1859.

Fig. 1.

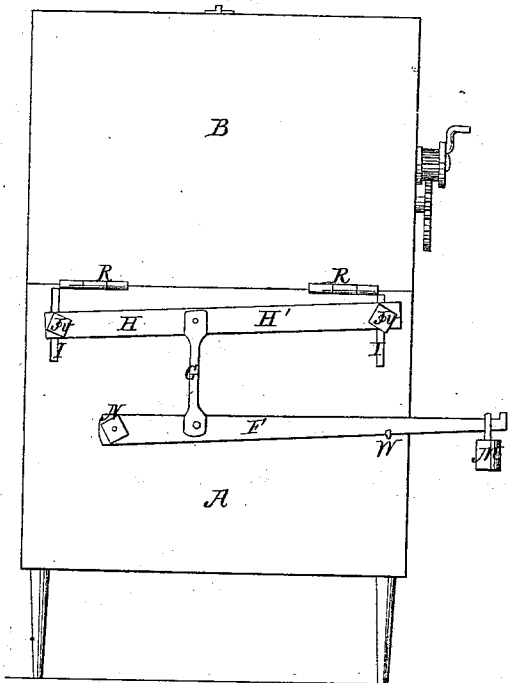


Fig. 2.

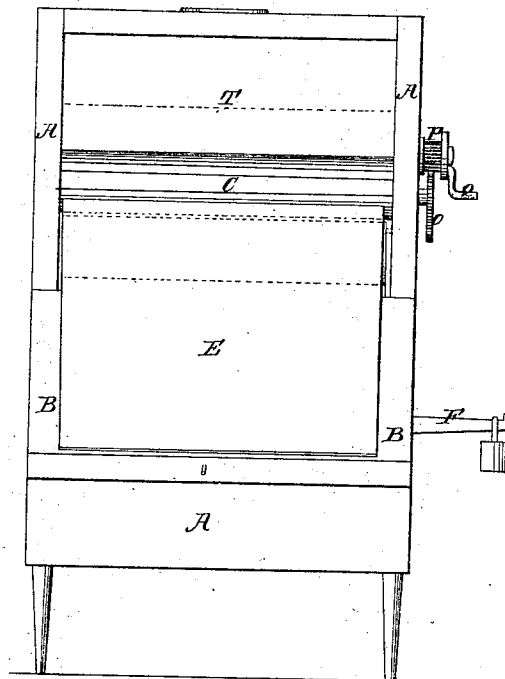
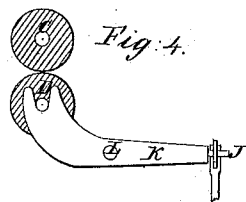
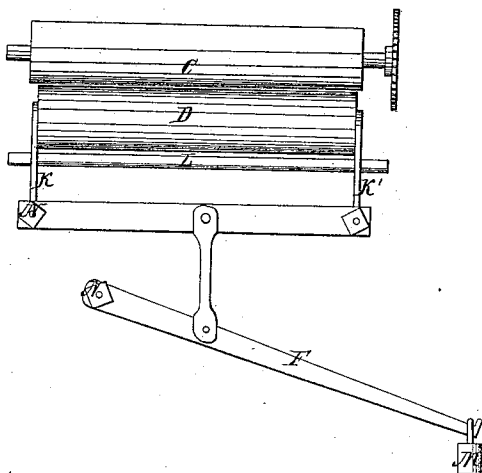


Fig. 3.



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W. H. Long,
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UNITED STATES PATENT OFFICE.

W. W. HOLLMAN, OF EDDYVILLE, KENTUCKY.

MANGLE.

Specification of Letters Patent No. 25,413, dated September 13, 1859.

To all whom it may concern:

Be it known that I, W. W. HOLLMAN, of Eddyville, Lyon county, State of Kentucky, have invented a Combined Mangle and Wardrobe; and I do hereby declare that the following is a full and exact description of its construction and operation, reference being had to the accompanying drawings, and to the letters of reference marked thereon, so as to enable others skilled in the art to make and use my apparatus.

Figure 1, of the drawings represents a front view of my combined mangle and wardrobe, with the door B, shut; Fig. 2, a similar view the door B, being open; Fig. 3, a detached front view of the mangling mechanism; Fig. 4, an end view of the latter.

This mangle is arranged in a wardrobe A, and consists of two horizontal rolls C, D, one above the other the shaft of the upper roll being held in fixed bearings in the sides of the wardrobe and the shaft of the lower roll being supported by the slotted ends of lever arms J K, J' K'. These lever arms are arranged on a fulcrum rod L, both being movable upon said fulcrum rod independent of each other. The front ends of the lever arms project through vertical slots I, I, in the front of the wardrobe, and the pivots J, J', at the front ends of the lever arms pass through holes in the ends of a balancing lever H, H', and are kept from slipping out of said holes by means of screw nuts V, V, at the ends of the pivots and outside of the balancing lever. These holes are somewhat wider than the diameter of the pivots so as to allow the latter to play in the holes. The slots I, I, are long enough not to interfere with the up and down motion of the lever arms.

A connecting rod G, links the center of the balancing lever to a lever F, fulcrumed at N, and weighted at its outer end M. By lifting the weighted end of lever F, from the position shown in Fig. 3, into the position represented in Fig. 1, the connecting rod G, will raise the balancing lever and with it the front ends of the lever arms. The lever arms being fulcrumed at L, their rear ends will descend and thus the lower roll D, will be made to descend so as to leave a wide space between the two rolls D, and C, suitable for the introduction of the clothes to be mangled. The lever F, and the whole mangling apparatus can be confined in this relative position by placing the

weighted end of the lever in the supporting pin or hook W.

When the mangling apparatus is in the position shown in Fig. 3, the weighted lever draws down the connecting rod, balancing lever and front ends of the lever arms so that their rear arms hold the roll D, up toward roll C, with an upward pressure corresponding to the weight put on the end of lever F. This pressure may be increased at will during the process of mangling by the operator placing the foot upon the weighted end of the lever F.

As the lever arms play freely and independent of each other on the fulcrum rod L, either end of the roll D, is at liberty to play up and down independent of the other end in order that it may adapt itself to the varying thickness of the clothes between the rolls.

Motion is transmitted to the roll C by means of a crank handle Q, attached to a pinion P, which meshes with a cog wheel O, upon the outer end of the shaft of roll C. A sheet of cloth E, or other suitable material is fastened at one end to the roll C, the width of the sheet corresponding to the length of the rolls.

When cloths are to be mangled the door B, hinged at R, R, is opened and may be sustained in a horizontal position by any suitable means so as to form a desk or table in front of the wardrobe. The sheet E, is then drawn out so as to unwind from roll C, and is laid on the table B. The clothes to be mangled are then placed upon the sheet and the latter together with the cloth is drawn in toward and between the rolls by revolving the crank Q, and thereby the roll C, in such a direction as to wind up the sheet. The lever F, which has all this time been in the position shown in Fig. 1, is now lifted out of hook W, and let down as seen in Fig. 3, so as to raise the lower roll D, and press the clothes between the rolls. The revolution of the crank Q, being continued the clothes will be drawn through between the rolls and will be thus mangled. When the clothes held by the sheet have been revolved and worked between the rolls a sufficient length of time the operator raises the lever F, and takes hold of the front end of the sheet and draws it out so as to unwind the cloths which are then removed and the operation above described continued.

The mangling apparatus is so arranged in the wardrobe case that there is sufficient space above the rolls (as indicated by the dotted line T, in Fig. 2) and also a similar
5 space in the lower part of the wardrobe below the rolls for the insertion of shelves whereon the mangled clothes may be placed and stored away.

It will be understood that the whole
10 mangling apparatus could be so arranged that the ends J, J', of the lever arms would project through slots in the rear of the wardrobe and that the balancing lever, connecting rod, and weighted lever would be
15 in rear of the wardrobe almost entirely out of sight; it will also be understood that instead of the upper roll the lower roll might be arranged in fixed bearings and the upper roll be provided with lever arms, balancing
20 lever, weighted lever, &c., similar to those

above described. It will also be understood that the levers may be combined with a different kind of frame or case and yet perform the same functions. I do not therefore wish to be understood as limiting myself to the use of the levers K J, K' J', and
25 balancing lever H H', in any particular case or frame so long as they operate substantially as described.

Having described my invention what I
30 claim and desire to secure by Letters Patent, is:—

The combination of the levers K J, K' J', with one of the rolls and balancing lever
35 H H', substantially as and for the purposes set forth.

W. W. HOLLMAN.

Witnesses:

W. H. LONG,

I. D. YEISER.