

(No Model.)

M. F. DANNMEYER.
MANGLE.

No. 516,566.

Patented Mar. 13, 1894.

Fig. 1.

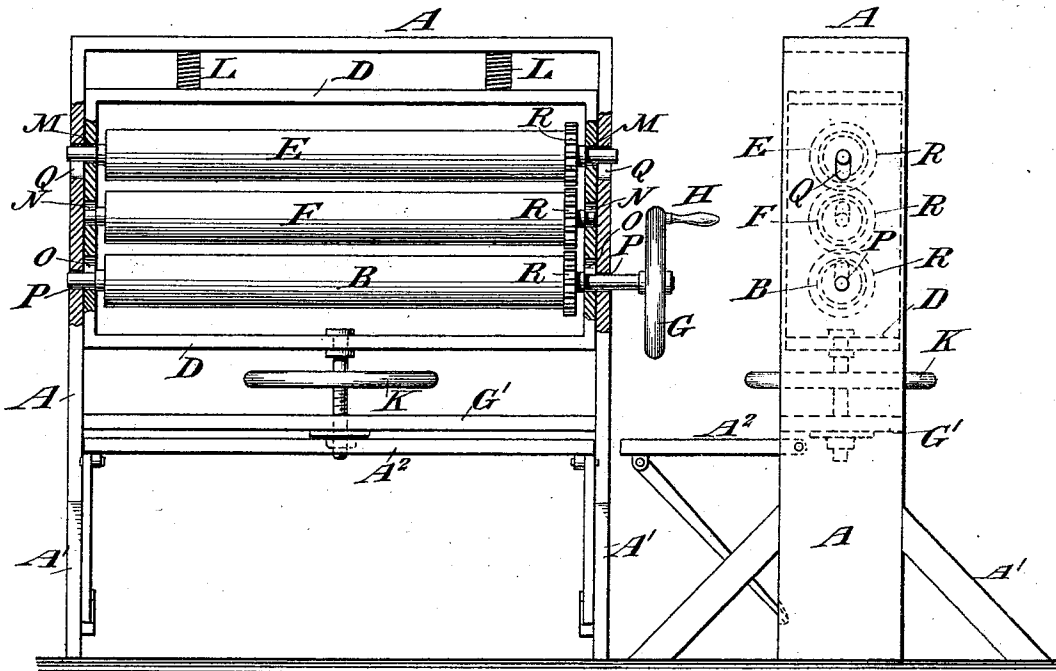


Fig. 2.

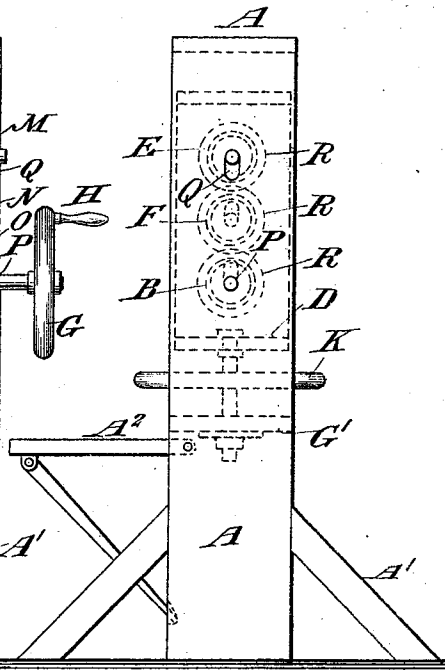


Fig. 3.

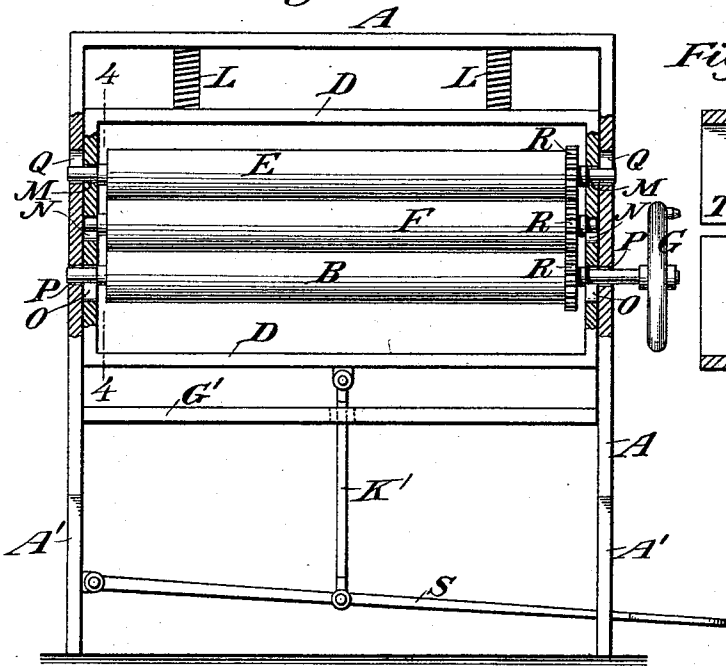


Fig. 4.

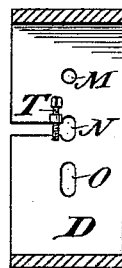
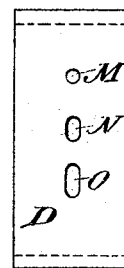


Fig. 5.



Witnesses:-
O. R. Hayward

Wm. G. Chittick

M. F. Dannmeyer Inventor
By his Attorney J. O. Foster.

UNITED STATES PATENT OFFICE.

MARTIN F. DANNMEYER, OF NEW YORK, N. Y.

MANGLE.

SPECIFICATION forming part of Letters Patent No. 516,566, dated March 13, 1894.

Application filed May 2, 1893. Serial No. 472,815. (No model.)

To all whom it may concern:

Be it known that I, MARTIN F. DANNMEYER, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Mangles, of which the following is a specification.

My invention relates to mangles and has for its object the provision of an apparatus simple in construction, inexpensive in manufacture and efficient in practical use.

To attain the desired end my invention consists in the construction and arrangement of parts first fully described and then pointed out in the claims.

In the drawings which form a part of this specification Figures 1 and 3 represent front elevations of my mangle, the rolls being indicated in Fig. 1 in a disengaged position and in Fig. 3 in a closed relation, Fig. 3 also showing a modification of the means used to depress the inner frame. Fig. 2 is a side elevation. Fig. 4 is a section on the line 4—4 Fig. 3; and Fig. 5 is an elevation on the side of my inner movable frame.

Like letters refer to like parts in all the views.

In the drawings A represents the outer frame of my mangle provided with legs A¹ and with a folding table shelf A² and also with a stationary horizontal shelf G¹.

Within the rectangular compartment formed by the shelf G¹, and the top and upper portions of the sides of my mangle is suspended a movable inner frame D as by means of springs L. The inner frame D sustains three rolls E, F, and B, the shafts of the rolls E and B projecting through the sides of the inner frame D into the sides of the outer frame A, the said three rolls being so located as regard each other that when the inner frame D is in its normal or inoperative position the gears R with which the said rolls are provided will not engage each other. The roll E works in bearings M in the sides of the inner frame D, and the ends of the shaft of said roll project into oblong slots Q formed in the sides of the frame A. The roll F works in bearings N located in the sides of the inner frame D,—one of said bearings being provided with an open mouth normally closed by means of the bolt T. The roll F is thus detachable at will

from the inner frame D. The lower power roll B works in bearings P formed in the outer frame sides,—the shaft of the same passing at opposite ends of the said roll, through the longitudinal slots O located in the sides of the inner frame D.

In order to engage the gears R of the rolls E, F, and B the inner frame D is forced downward by means of any suitable operating device as the wheel K rigidly attached to a vertical screw secured to the frame D, and passing through the threaded orifice of a plate located beneath the shelf G¹. Or if preferred the frame D may be lowered by means of the rod K¹ working between the frame D and treadle S hinged to the frame. The roll B which may be operated by steam, hand, or other power, is provided with a fly wheel G and operating handle H.

In practical operation the roll F is detached from the mangle and the garments or fabrics to be treated are wound around the same. The charged roll F is then placed in the mangle. By now turning the wheel K or depressing the treadle S the inner frame D will be lowered and the gears R of the three rolls will become engaged, and in case the roll B is rotated by steam power the other rolls E and F will commence to revolve. If no steam power, &c., is used the parts may be rotated by operating the wheel G and handle H. After the garments, &c., are sufficiently smoothed, the inner frame D is allowed to ascend and the roll F is then detached. For convenience and in order to economize time I prefer to use two rolls F in connection with my mangle, one of which may be in process of being charged, while the other one is in active operation in the mangle. In this case as soon as one roll F is detached from the mangle the other charged roll may be substituted therefor.

In operating my mangle the rolls may be heated if preferred by any of the well known methods of accomplishing that result, for which purpose the shafts of the upper and lower rolls are extended entirely through the sides of the mangle. Inasmuch as the rolls always rotate in one direction it is not necessary either to stop or reverse the action of the machine in order to remove the roll F, and the garments or goods thereon wound,

after having been treated. The said charged roll F, may be removed after the frame D, has been raised.

5 This mangle is rapid in operation, and is of simple though solid construction, and is easy to operate. It will not injure the finest fabric but on the contrary produces a beautiful, lustrous, soft and silky finish upon goods treated in the same.

10 What I claim as new, and desire to secure by Letters Patent, is—

1. In a mangle, a stationary frame carrying a roll, and an inner movable frame also carrying a roll, a spring connecting said frames 15 whereby the rolls are held apart, one roll working in bearings formed in the inner, and in oblong slots located in the outer frame sides, and the other roll working in bearings formed in the outer and in oblong slots located in the inner frame sides, the shafts of 20 the rolls extending entirely through the sides of the mangle, as for purposes of heating, the

inner frame also carrying a roll detachably secured therein.

2. In a mangle, two frames, one located 25 within the other, carrying two permanent rolls, one roll working in bearings formed in the inner, and in oblong slots located in the outer framesides, and the other roll working in bearings formed in the outer, and in oblong 30 slots located in the inner frame sides, the inner frame also carrying a roll detachably secured therein, in combination with means for moving the inner frame whereby the said rolls may be engaged and disengaged at will. 35

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 30th day of January, 1893.

MARTIN F. DANNMEYER.

Witnesses:

J. ODELL FOWLER, Jr.,
WM. M. V. FOWLER.