

(No Model.)

W. E. DEWEY.
STARCHING MACHINE.

No. 505,896.

Patented Oct. 3, 1893.

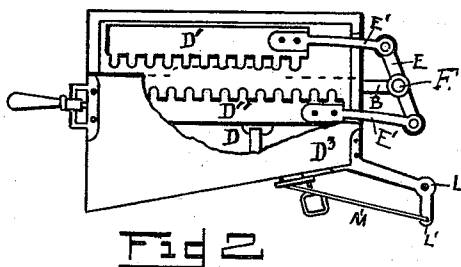
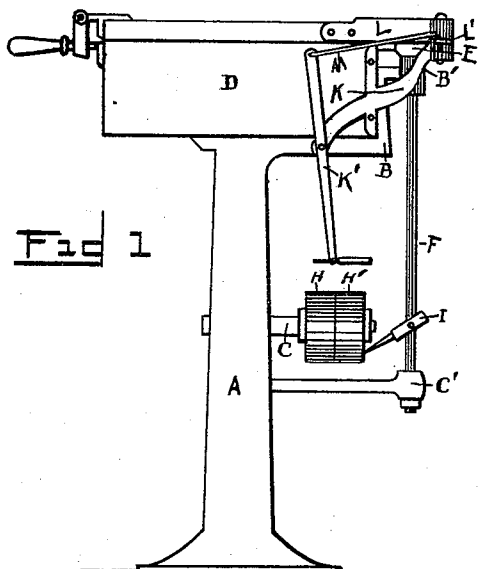


Fig 3

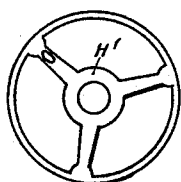


Fig 4

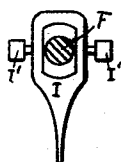
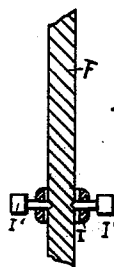


Fig 5



Witnesses
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UNITED STATES PATENT OFFICE.

WILL. E. DEWEY, OF ROCKFORD, ILLINOIS.

STARCHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 505,896, dated October 3, 1893.

Application filed February 29, 1892. Serial No. 423,306. (No model.)

To all whom it may concern:

Be it known that I, WILL. E. DEWEY, of Rockford, in the county of Winnebago and State of Illinois, have invented certain useful
5 Improvements in Starching-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same,
10 reference being had to the accompanying drawings, which form a part of this specification.

This invention has relation to a new and useful shirt starching machine, the aim and
15 object of which is to offer a means whereby the bosom, neckband and wristbands may all be starched in one operation, as will be described more fully hereinafter.

In the accompanying drawings forming part
20 of this specification, Figure 1 shows a side elevation of a machine embodying my invention; Fig. 2, a top view with parts broken away; Fig. 3, a view of the main driving wheel; Fig. 4, an enlarged detail showing the
25 arrangement of the rocker arm, while Fig. 5 is a transverse sectional view of Fig. 4.

Similar letters of reference refer to corresponding parts throughout the several views.

A represents a suitable supporting stand-
30 ard, preferably of iron, which is provided at its upper end with an extending bracket B, ending in the bearing B', intermediately with the transverse stub shaft C, and near the lower end with the supporting arm C'. Mounted
35 upon this standard and secured to the bracket B, is the starch box D, of a suitable size, and preferably having one of its ends slightly wider than the other, as will be understood by referring to Fig. 2. Horizontally reciprocating
40 within this box, are two wooden rubbers D'. D'', connected to the rocker head E, by means of the arms E' E', which are pivoted, one at each end of the rocker head. These rubbers are permitted a slightly lateral move-
45 ment. This rocker head is of suitable metal, and works upon the bearing B', which latter encompasses the rocker shaft F attached to the head E. At the lower end, the shaft is held within the bearing of the arm C'.

50 H, H', represent respectively, a loose and driving pulley the latter being mounted ad-

joining the vertical shaft F, and provided with an elongated opening within one of its spokes as shown in Fig. 3, adapted to accom-
modate the free end of the rocker arm I, as
55 illustrated in Fig. 1. This arm I is pivotally secured to the shaft F, by means of the set screws I' I', which latter work within suitable openings of the shaft F, as will be understood by referring to Figs. 4, and 5.

To the box D, is secured at one end, the supporting bracket K, of suitable metal, which extends outward, and affords at its end, a piv-
otal support to the hinge arm of the lid D³ while its lower end affords a means of sup-
65 port to the belt shifter K'.

The hinge arm L, is provided with the projection L', at an angle to the arm proper. The arm L, is pivoted to the bracket K, so as to form a hinge connecting the lid D³ to the
70 bracket K. The rod M connects the projection L' to the shifter K', so that any movement of the lid will operate the shifter. The lid D³ is connected to the rubber D'' in any ordinary manner so that the movement of the
75 lid moves the rubber in the same direction.

When all the parts have been properly constructed and arranged as shown in the figures, the operation of my device will be as follows: The necessary quantity of starch is
80 placed in the box, when the lid D³ is closed. This closing of the lid actuates the shifter and throws the belt on the operating pulley. The connected rocker arm I is carried in a
85 circle with the pulley and so imparts a reciprocating movement to the shaft F and finally to the rubbers D'. D''. In Fig. 2, the dotted lines running lengthwise of the box, show the projection of the fixed portion of the cover. The parts of the garment to be starched are
90 placed in the box lid opening and the lid and rubber closed upon the garment. Then the parts desired to be starched are thoroughly worked between the reciprocating rubbers. The clothes are held between the fixed sec-
95 tion and the movable section of the cover. Of course it will be understood that any other well known cam movement might be employed in operating the rocker shaft.

The device is noticeable because of its sim-
100 plicity.

Having thus described my said invention

and the best methods known to me of operating the same, what I claim as new, and desire to secure by United States Letters Patent, is—

1. In a starching machine the combination
5 with a standard provided with two projecting shaft supports, of a starch-box, horizontally movable rubbers within said box, a rocker shaft within said shaft supports, pivoted arms connecting said rubbers to said rocker shaft
10 and a rocker arm connecting said shaft to a revolving driving pulley all substantially as and for the purpose set forth.

2. In a starching machine the combination with a supporting standard, of a starch-box,
15 rubbers horizontally and laterally movable within said box and connected to a suitable rocker shaft, and a hinged lid provided with a projecting arm connected by means of a rod

to a belt shifter to stop or start said rocker shaft, all arranged to operate substantially as
20 and for the purpose set forth.

3. In a starching machine the combination of the following instrumentalities, to wit: the standard A, box D, rubber D', D'', shaft F
25 connected by means of the head E and arms E' E' to said rubbers, the pulleys H, H', rocker arm I, bracket K, and the hinge arm, connected by means of the rod M to the belt shifter K', all arranged to operate substantially as and for the purpose set forth.
30

In testimony whereof I affix my signature in presence of two witnesses.

WILL. E. DEWEY.

Witnesses:

G. C. SPAFFORD,

B. J. CHANEY.