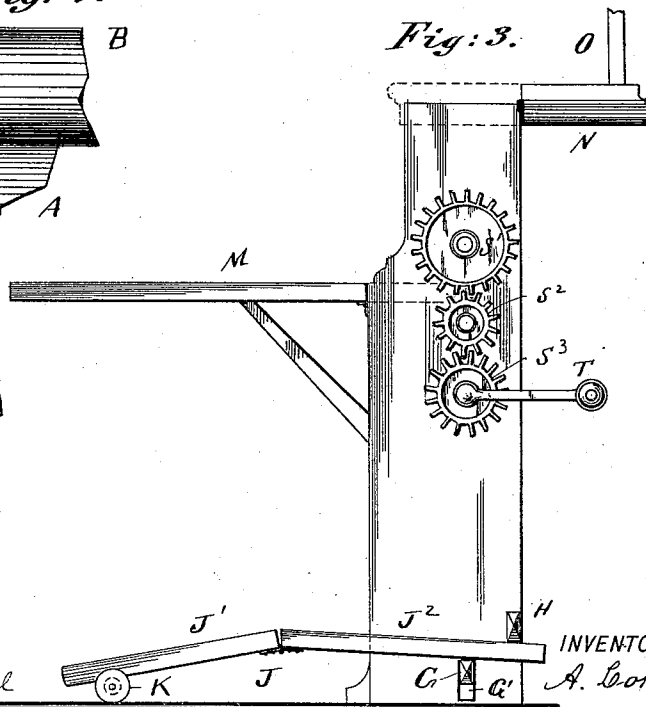
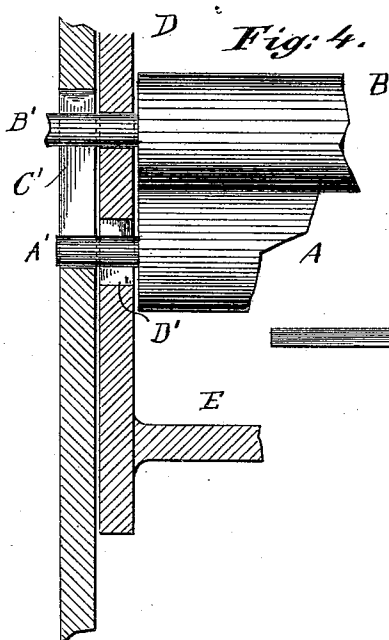
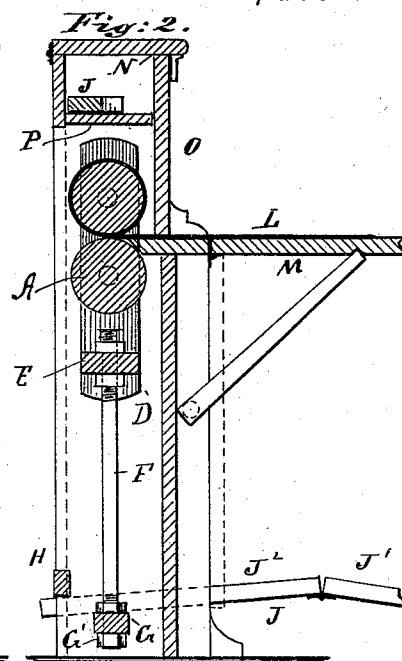
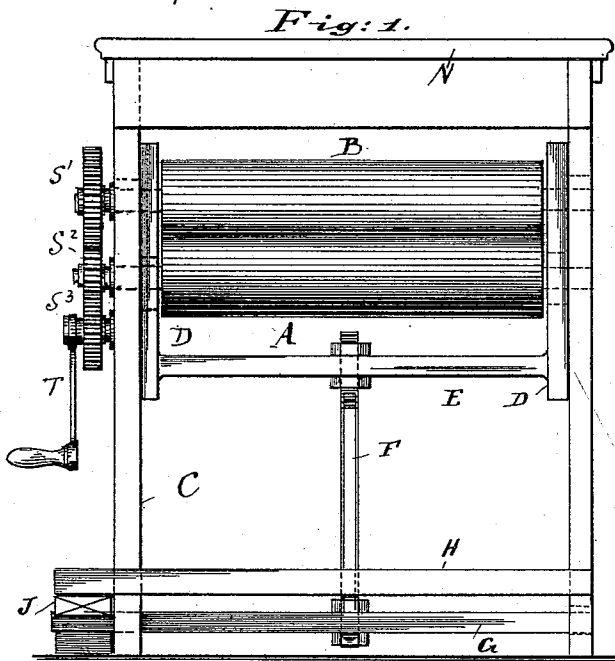


(No Model.)

A. LORENZ.
MANGLE.

No. 494,277.

Patented Mar. 28, 1893.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ANTON LORENZ, OF GUTTENBERG, NEW JERSEY.

MANGLE.

SPECIFICATION forming part of Letters Patent No. 494,277, dated March 28, 1893.

Application filed August 27, 1892. Serial No. 444,299. (No model.)

To all whom it may concern:

Be it known that I, ANTON LORENZ, a subject of the Emperor of Austria-Hungary, residing at Guttenberg, in the county of Hudson, in the State of New Jersey, have invented certain new and useful Improvements in Mangles, of which the following is a specification.

The object of my invention is to provide a new and improved mangle which is simple in construction and in which the articles can be mangled very easy and rapidly.

The invention consists in the construction of parts and combination of details, as will be fully described hereinafter and finally pointed out in the claim.

In the accompanying drawings, Figure 1 is a rear-elevation of my improved mangle, the back-plate being removed. Fig. 2 is a vertical transverse-sectional view of the mangle. Fig. 3 is a side-view of the same, and Fig. 4 is a detail sectional view of the bearings for the rollers.

Similar letters of reference indicate corresponding parts.

The mangle is constructed with a supporting-roller A and the pressure-roller B which are arranged in a suitable casing C. The shaft A' of the supporting-roller has its ends resting on the bottom of vertical slots C' in the side-pieces of the frame, and the shaft B' of the pressure-roller B is mounted to turn in suitable bearing-openings in two sliding-pieces D arranged and guided on the inner surfaces of the side-pieces of the frame, the projecting ends of said axle also passing through the side slots C'. Each sliding-piece D is provided with a slot D' through which the axle of the supporting-roller A can pass, as shown in Fig. 4. The sliding-pieces D are united by the cross-bar E below the supporting-roller and said cross-bar is connected by a rod F with a lever G, one end of which is held loosely in an opening in one of the side-walls and the other end of which projects through a slot G' in the other side-wall near the bottom of the same. A fixed bar H is fastened to the back of the casing and projects beyond that side through which the lever G projects and is located a short distance above said lever. A foot-lever J, composed of two sections J' and J² hinged together, is

provided for exerting a pressure. The free end of the part J² of said foot-lever is rested on the projecting end of the lever G and is placed below the projecting end of the bar H, as shown in Fig. 3. The free end of the part J' of said foot-lever is provided with rollers K to reduce friction. When no pressure is exerted, the parts of the foot-lever are at an obtuse angle to each other, as shown in Fig. 3. While the articles are drawn in between the rollers of the mangle, the operator presses one foot upon the part J' of the foot-lever and the other foot upon the part J². Thereby the two hinged parts of the foot-lever are brought in line, the projecting end of the lever G is pressed downward, the projecting part of the bar H forming the abutment or fulcrum for said foot-lever. By pressing the lever G downward, the rod F pulls down the slides D, whereby the pressure-roller B is forced down upon the articles that are drawn in between the two rollers. Great pressure can thus be exerted by means of said levers. A piece of duck or canvas L is secured to the upper roller and can rest upon the hinged leaf M. The articles to be mangled are placed upon said piece of duck and with the same are rolled upon the upper roller B and drawn in between the two rollers. The casing is provided with a hinged top N to which the front-plate O is attached for closing the front of the mangle. A shelf P is formed in the casing above the top-roller and serves to support the folded detachable foot-lever J when the same is not in use. If there is any lost motion, the same can easily be taken up by changing the position of the nuts on the rod F.

S' S² S³ are the gear-wheels and T the crank for rotating the rollers.

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

In a mangle, the combination, with a casing, of a supporting roller journaled in the sides of the same, a pressure-roller above the supporting roller, which pressure-roller is mounted at its ends in slides at the sides of the casing, a cross-bar uniting the said slides, a lever mounted in the casing lengthwise and projecting from one side of the same, a rod connect-

ing the cross-bar uniting the slides with the
said lever, an abutment for a foot-lever pro-
jecting from the side of the casing, a foot-le-
ver composed of two sections hinged together
5 at the bottom and provided with rollers at
its outer end, and gearing for rotating the
rollers, substantially as set forth.

In testimony that I claim the foregoing as
my invention I have signed my name in pres-
ence of two subscribing witnesses.

ANTON LORENZ.

Witnesses:

OSCAR F. GUNZ,
CHARLES SCHROEDER.