G. C. BROOM.

MANGLES.

No. 187,504. Patented Feb. 20, 1877.

Fig. 1.

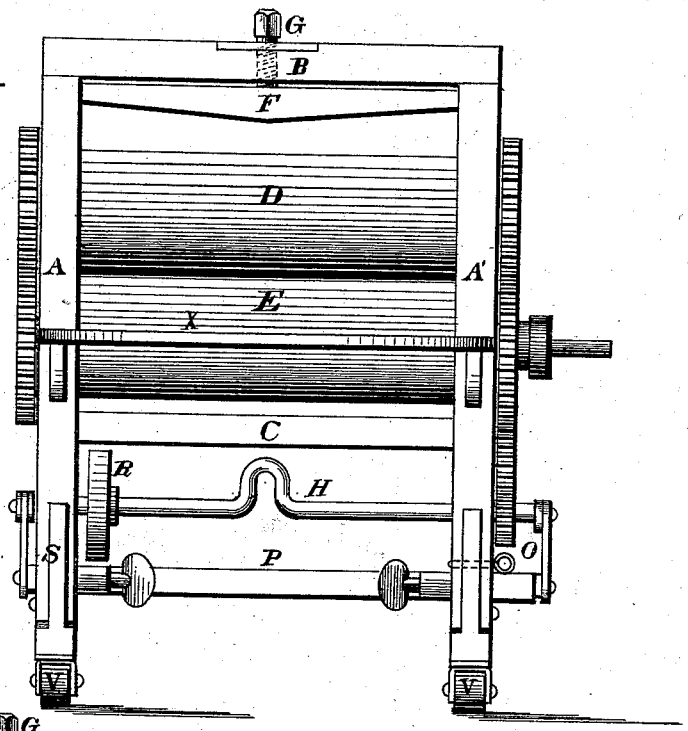


Fig. 2.

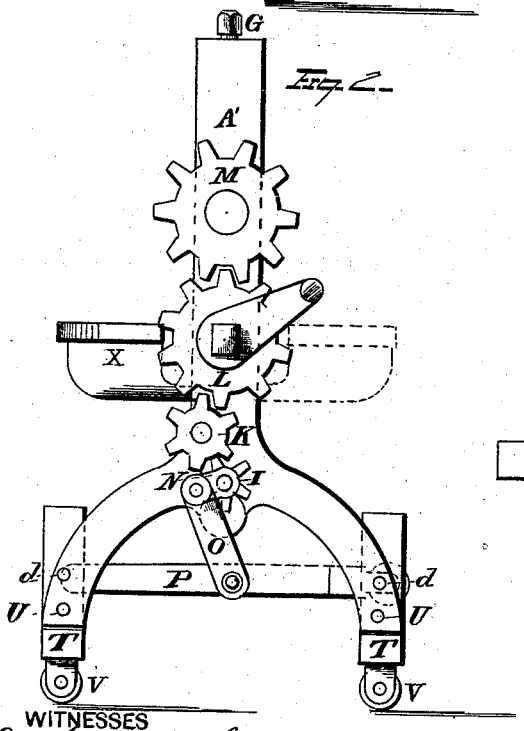
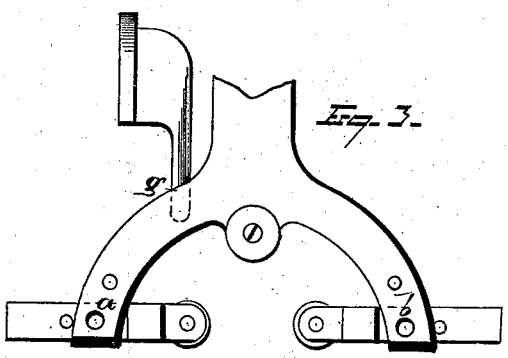


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE C. BROOM, OF CLEVELAND, OHIO.

IMPROVEMENT IN MANGLES.

Specification forming part of Letters Patent No. **187,504**, dated February 20, 1877; application filed November 24, 1876.

To all whom it may concern:

Be it known that I, GEORGE C. BROOM, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Mangles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to mangles, and consists of the parts and combinations as hereinafter fully specified and claimed.

In the drawing, Figure 1 represents a front elevation of a mangle embodying my invention. Fig. 2 is a side elevation, and Fig. 3 is a detached inside view of one of the standards.

A A′ represent the frame or standards, connected by the cross-pieces B and C. D and E are the rollers, geared at both ends, the shaft of the upper one resting in journal-boxes, which slide in vertical guides. F is a cross-piece, the ends of which press on springs resting on the journal-boxes. G is a screw, by which the pressure of the rollers is regulated. H is a shaft, provided on its end with the small cog-wheel I and the arm N, to which latter is attached the pitman O, connected with the treadle P. By means of the larger cog-wheel K motion is transmitted from the small cog-wheel I to the gear-wheel, of still larger diameter, on the shaft of the lower roller E. The cog-wheels L and M are of the same diameter. The shaft H is also provided with the large pulley R, having a heavy rim, which serves the purpose of a balance-wheel, and also as a means for attachment of a belt, when it is desired to use steam or water power.

The purpose of the system of gearing described is to convert the quick motion of the treadle or shaft H into a slower motion of the rollers, which in a mangle is very desirable. The shaft of the lower roller E projects at both ends beyond the gearing for the attachment of a crank, so that power can be applied directly to the shaft of the lower roller, and at either end, as may be desired. The treadle P can be reversed—that is, can be attached to the other side of the frame. The treadle is attached to the frame by means of pins or screws, that fit in sockets or holes of the standards, as shown in Fig. 3. By withdrawing the pins and reversing the treadle, so that the pins or screws can be inserted in the opposite legs or standards, the change is readily and easily effected.

Each leg or standard is constructed of two parts, the upper one being provided with a slot, S, in which moves and fits the diminished upper parts of the foot-piece T. Said foot-piece is pivoted at U and carries the caster V. A pin, *d*, passes through both parts of each standard and keeps the same in position.

So secured, the machine can be readily moved on the casters; but when it is desired that it shall stand firm the pins *d* are withdrawn, and the foot-piece is then caused to assume the position indicated in Fig. 3, wherein the machine rests on the lower ends of the standards, and the casters are thrown out of employment.

X is the table, attached to bent arms, which fit in sockets or apertures of the standards or frame, and which sockets are provided on both sides, so that the table can be placed on either side, as may be found convenient. Said frame is also provided with apertures *g*, in which the legs or arms of the table can be inserted when not in use, thus taking up less room.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a mangle, the combination of caster-feet T, hinged or pivoted to the legs or standards A, the said feet provided with shoulders, which abut against the ends of the standards when in use.

2. The combination, with the standards A A′, provided with sockets or apertures *a b*, of the removable and reversible treadle, constructed so as to be attached and swung from either side of the machine, substantially as described.

3. The combination, with standards or legs A, slotted and perforated, as set forth, of the caster-feet T, the same pivoted within the

slotted standards, and adapted to be secured thereto by a detachable pin, substantially as and for the purpose set forth.

4. The combination, with the frame of a mangle, provided with sockets on opposite sides, as set forth, of a detachable table, X, adapted to be attached to either side of the frame, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE C. BROOM.

Witnesses:
FRANCIS TOUMEY,
EDWARD WALSH.