

H. ALBERS.
Mangle.

No. 205,168.

Patented June 25, 1878.

Fig. I

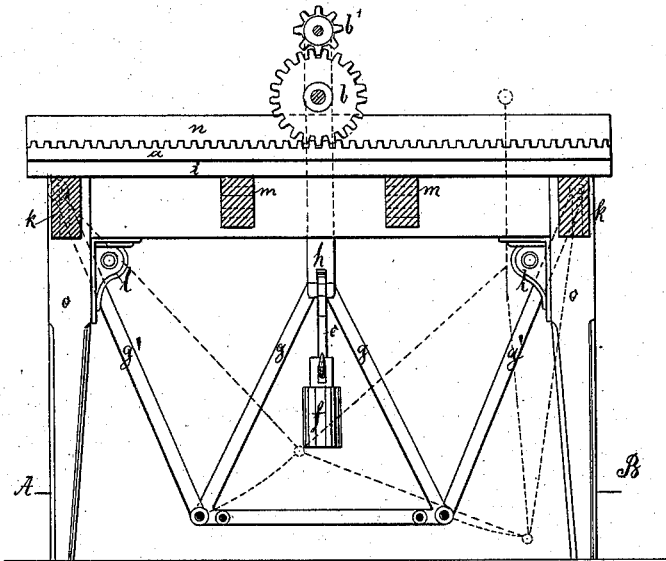
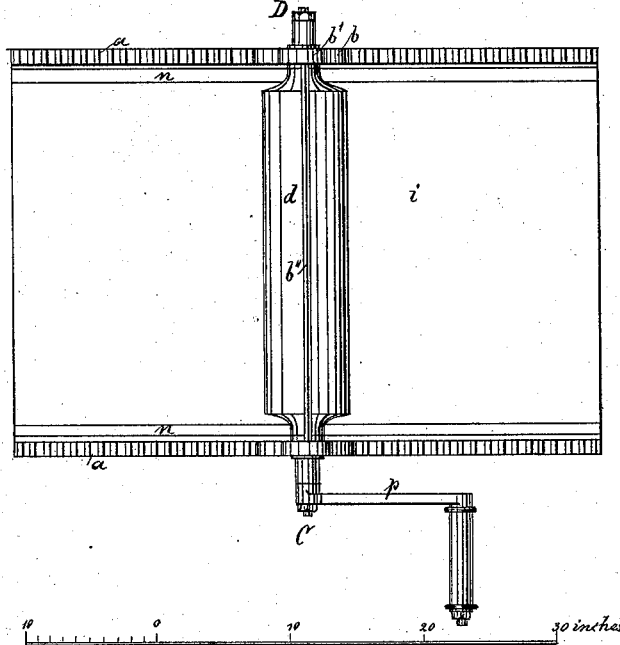


Fig. II



Witnesses:
Martin Tamm
W. M. Coak

Inventor
Heinrich Albers
 per *Schilling*
 Attorney

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Fig. III

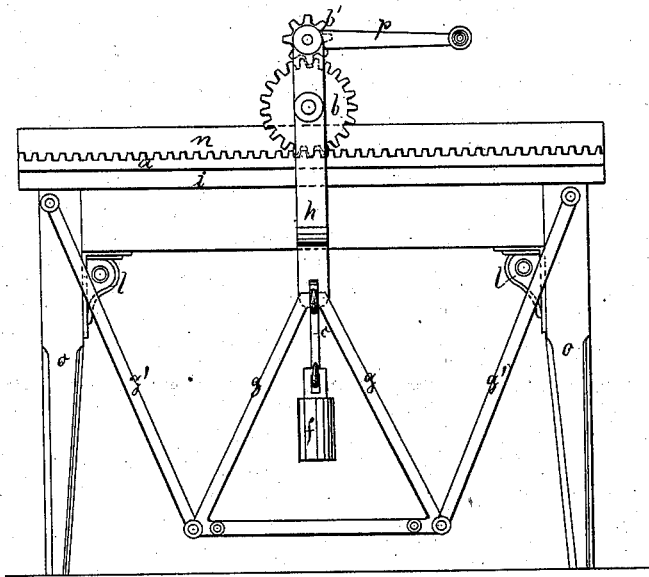
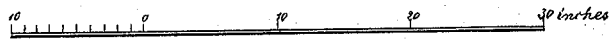
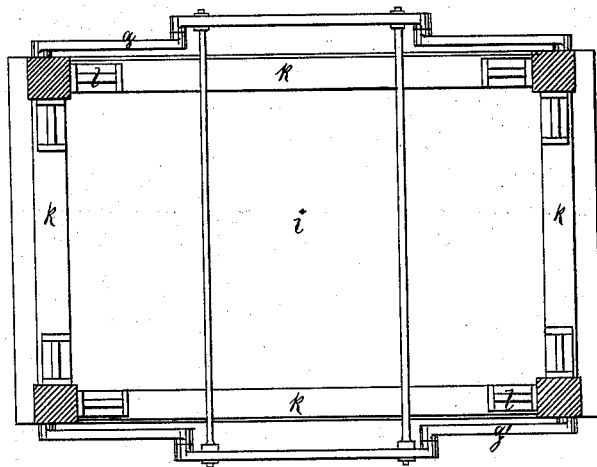


Fig. IV



Witnesses

Martin Larmer

W. M. Cross.

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Heinrich Albers

per *A. Schüchting*
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Fig. I

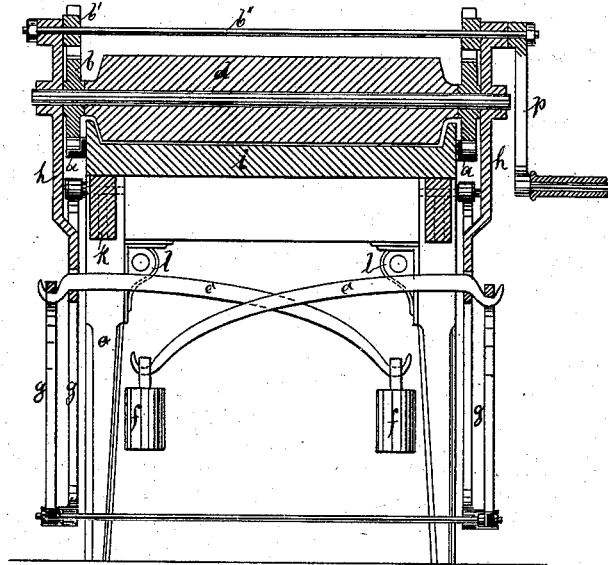
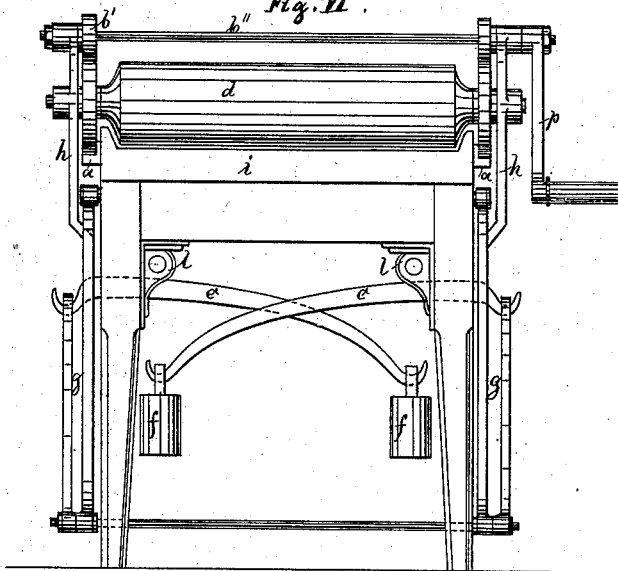


Fig. II



Witnesses:

Martin Larmer,
W. M. Evans.

Inventor
Heinrich Albers
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Attorney

UNITED STATES PATENT OFFICE.

HEINRICH ALBERS, OF HANOVER, PRUSSIA.

IMPROVEMENT IN MANGLES.

Specification forming part of Letters Patent No. **205,168**, dated June 25, 1878; application filed March 1, 1878.

To all whom it may concern:

Be it known that I, HEINRICH ALBERS, of Hanover, Prussia, have invented a Clothes-Mangling Machine, of which the following is a specification:

The present invention relates to certain improvements in clothes mangling or smoothing machines; and it consists in the construction and combination of parts which will be more fully described hereinafter, and then set forth in the claim.

In the accompanying drawings, forming part of this specification, Figure 1 is a longitudinal sectional view of a clothes-mangle constructed according to my invention. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of the machine. Fig. 4 is a horizontal section taken on the line A B of Fig. 1. Fig. 5 is a transverse vertical section through the line C D of Fig. 2. Fig. 6 is an end elevation of the machine.

The letter *i* designates a table-top, which is provided with a vertical guard-ledge, *n*, at each side thereof, for preventing the clothes from passing beyond the table. A longitudinal rack-bar, *a*, is secured to each side of the table-top, outside of the ledges thereof and below the top level of the latter. A cylinder or roller, *d*, moves back and forth on the table, so as to mangle the clothes or fabrics placed on the table, the machine differing in this respect from machines for a like purpose in which the clothes are placed on a table or bed reciprocating beneath a revolving roller journaled in stationary bearings.

The necessary reciprocating motion is imparted to the mangling or smoothing roller through the medium of spur-disks *b*, securely fixed on the shaft of the roller and engaging with the rack-bars of the table-top.

The roller is rotated by means of a shaft, *b'*, having a crank, *p*, at one end, and carrying pinions *b'*, which mesh into the spur-disks of the roller.

The driving-shaft and the roller are both journaled in vertical side standards *h*, the lower ends of which are slotted for the passage of transverse levers *c' c'*, located beneath the table-top. These levers cross each other, and they carry weights *f*, which serve to exert the requisite pressure upon the mangling-roller in order to press the same upon the clothes.

It may be stated that the weighted levers are fulcrumed in the side standards supporting the roller, and that the ends of the levers projecting beyond said standards are hooked, so as to receive the upper ends of skeleton plates or bars *g*, the lower ends of which are connected by transverse tie-rods, so as to form a supporting-frame for the weighted levers.

Arms *g'* are pivoted to the frame-plates *g* and to the table-legs, so as to suspend said frame-plates and permit the same to swing back and forth in unison with the reciprocating movement given to the mangling-roller.

The position which the parts mentioned assume is more clearly shown in Fig. 1.

The table-top is strengthened by the side and middle bars *K m*, and is supported upon legs *o*, which are connected with side bars by means of corner-pieces *l*.

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

The swinging supporting-frame, in combination with the weighted levers, the supporting-arms, the revolving and reciprocating mangling-roller, and the table, as and for the purpose specified.

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

HEINRICH ALBERS.

Witnesses:

W. SCHWARTZ,
A. M. SIMON.