(No Model.)

G. SCOTT.

MANGLE.

No. 316,838. Patented Apr. 28, 1885.

Fig. 2.

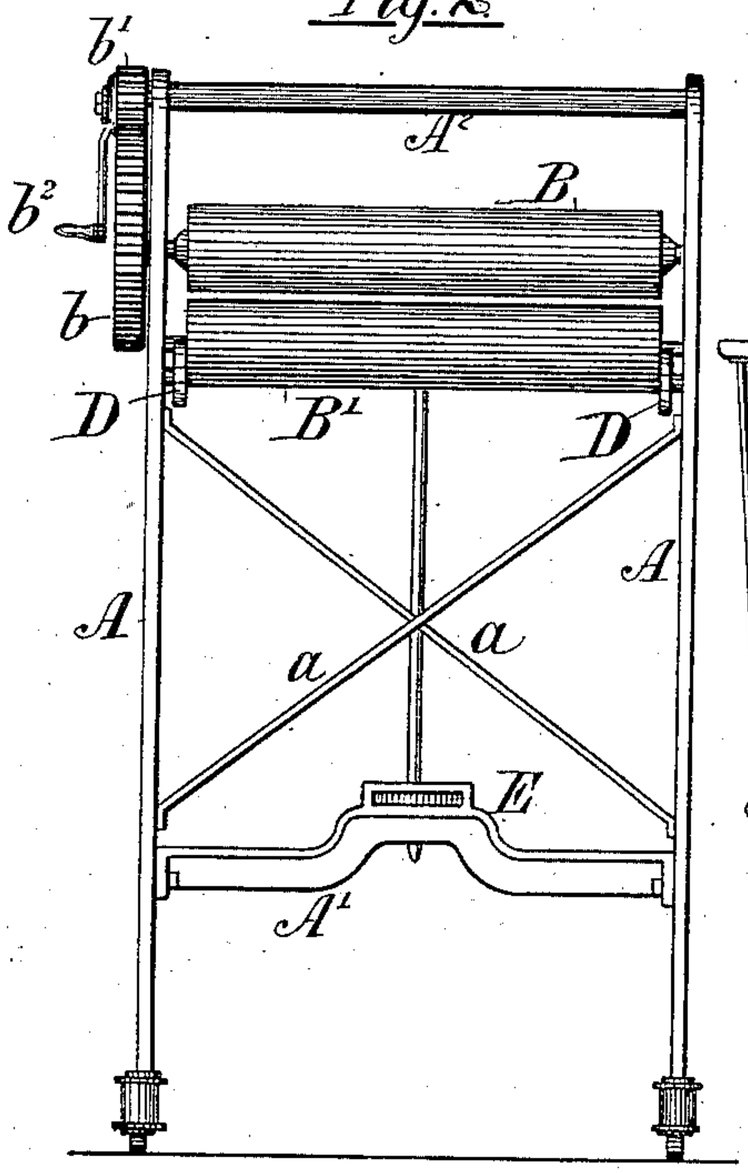


Fig. 1.

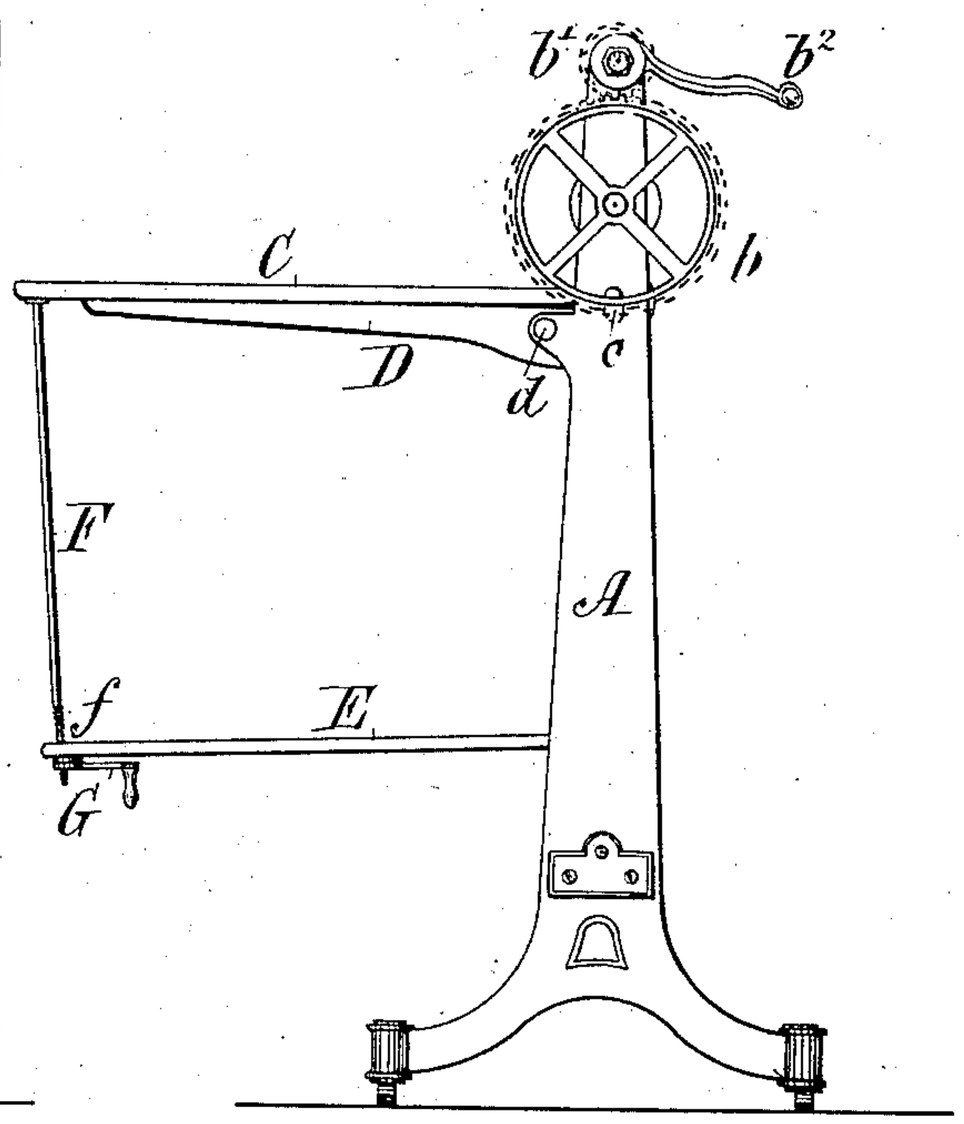


Fig. 3.

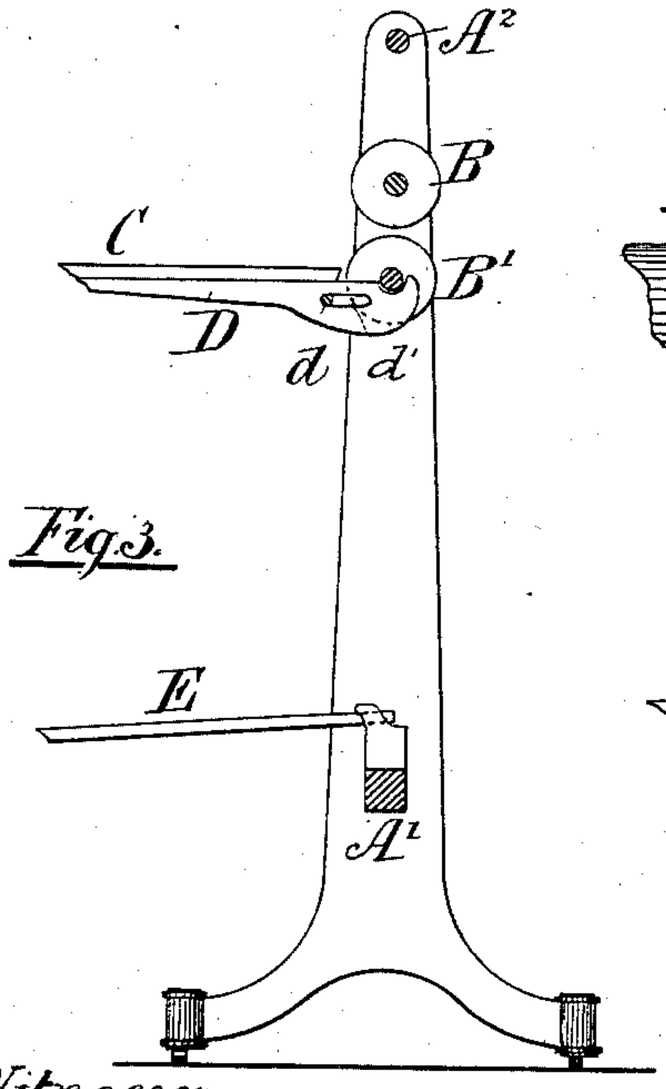


Fig. 4.

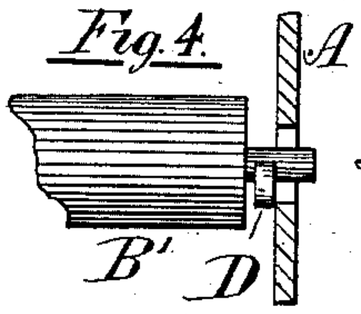


Fig. 5.

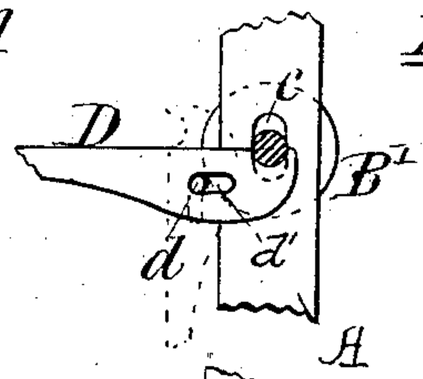


Fig. 6.

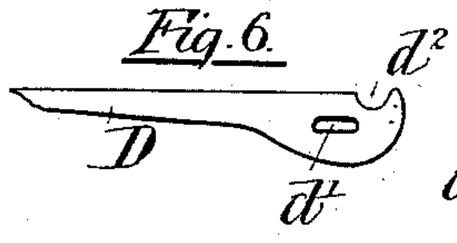
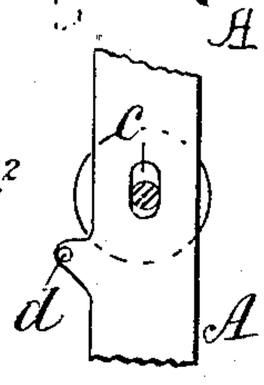


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE SCOTT, OF MONTREAL, QUEBEC, CANADA.

MANGLE.

SPECIFICATION forming part of Letters Patent No. 316,838, dated April 28, 1885.

Application filed January 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SCOTT, of the city of Montreal, in the district of Montreal and Province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Mangling-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to that class of laundry-machines called "mangles," which are intended, mainly, for domestic use in smoothing linen and other similar goods and as a substitute for flat-irons.

The improvements are hereinafter particularly described and specifically claimed; but for more complete comprehension of the same reference must be had to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved mangle with table and spring-board complete. Fig. 2 is a back view of same; Fig. 3, a sectional side view with one of the standards removed. Figs. 4, 5, 6, and 7 are enlarged detail views showing connections of levers with standards and lower roller.

Letters similar to those hereinafter used indicate like parts in all the figures of the drawings.

A A represent two standards, which, with cross-bars A′ A^2 and braces *a a*, go to make up a suitable frame. Properly journaled in the upper part of the standards A A is a roller, B, on one end of its shaft being arranged (outside the standard) a gear-wheel, *b*, driven by a smaller gear, *b′*, carried by the cross-bar A^2, which acts as its shaft, b^2 being a suitable crank. Immediately under the roller B is another roller, B′, of similar size, the spindles of which are journaled in vertical elongated slots *c* in the standards. A little below these slots and to one side are arranged pins *d*, projecting inward from each standard, which pins fit into horizontal slots *d′*, formed in the ends of two levers or arms, D D, which carry the table C. The inner ends of these levers or arms are also curved, as at d^2, so as to form sockets in which rest the spindles of the lower roller, B′, the pins *d* acting as the fulcrums of the levers, as will be seen in Figs. 3 and 5. In a socket formed in the cross-bar A′ fits one end of a stiff spring-board, E, which projects outward the same distance as the table C, their outer extremities being connected by a rod, F, the upper end of which is fixed to the table C. Its lower end is screw-threaded, as at *f*, and passes through the spring-board E, and is provided with a crank-nut, G, underneath the latter.

The operation of my invention will be readily understood; but I may state that by screwing or unscrewing the crank-nut G the levers D D and the table C, attached thereto, are elevated or depressed, and, acting upon the fulcrum-pins *d d* and journals of the lower roller, B′, serve to adjust said lower roller, and thus provide for unequal or varying thickness of material passing between the rollers B B′, the resistance of the spring-board E equalizing the pressure.

When the mangle is not in use, the spring-board may be removed and the table folded down by taking off the crank-nut G, releasing the rod F, slightly raising the outer end of the table, so as to clear the curved ends d^2 of the levers from the roller-journals, and then pulling the table outward until the fulcrum-pins *d* are at the opposite ends of the slots *d′*, as seen by dotted lines in Fig. 5.

It will of course be understood that this invention is applicable to wringers, ironing-machines, and like articles.

What I claim, and desire to secure by Letters Patent, is as follows:

1. The combination, in a mangling-machine, of the standards A A, an upper roller having fixed and a lower roller having adjustable bearings therein, of the levers D D, the table supported thereby, the said levers being fulcrumed on the standards and provided with sockets for the support of the journals of the lower roller, whereby the space between the upper and lower rollers may be increased or diminished by elevating or depressing the front end of the table, substantially as described.

2. The combination, with the frame, of the rollers B B′, the levers D D, fulcrumed on the standards, the table C, secured to the levers

upon one side of the fulcrum, and the roller B′, supported upon the other side, the spring-board E, and the rod F, connecting the said board E with the table C, substantially as described.

3. The combination of the standards A A, having vertical slots *c* and fulcrum-pins *d*, with the levers D D, having horizontal slots *d′* and carrying table C, substantially as and for the purpose specified.

GEORGE SCOTT.

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