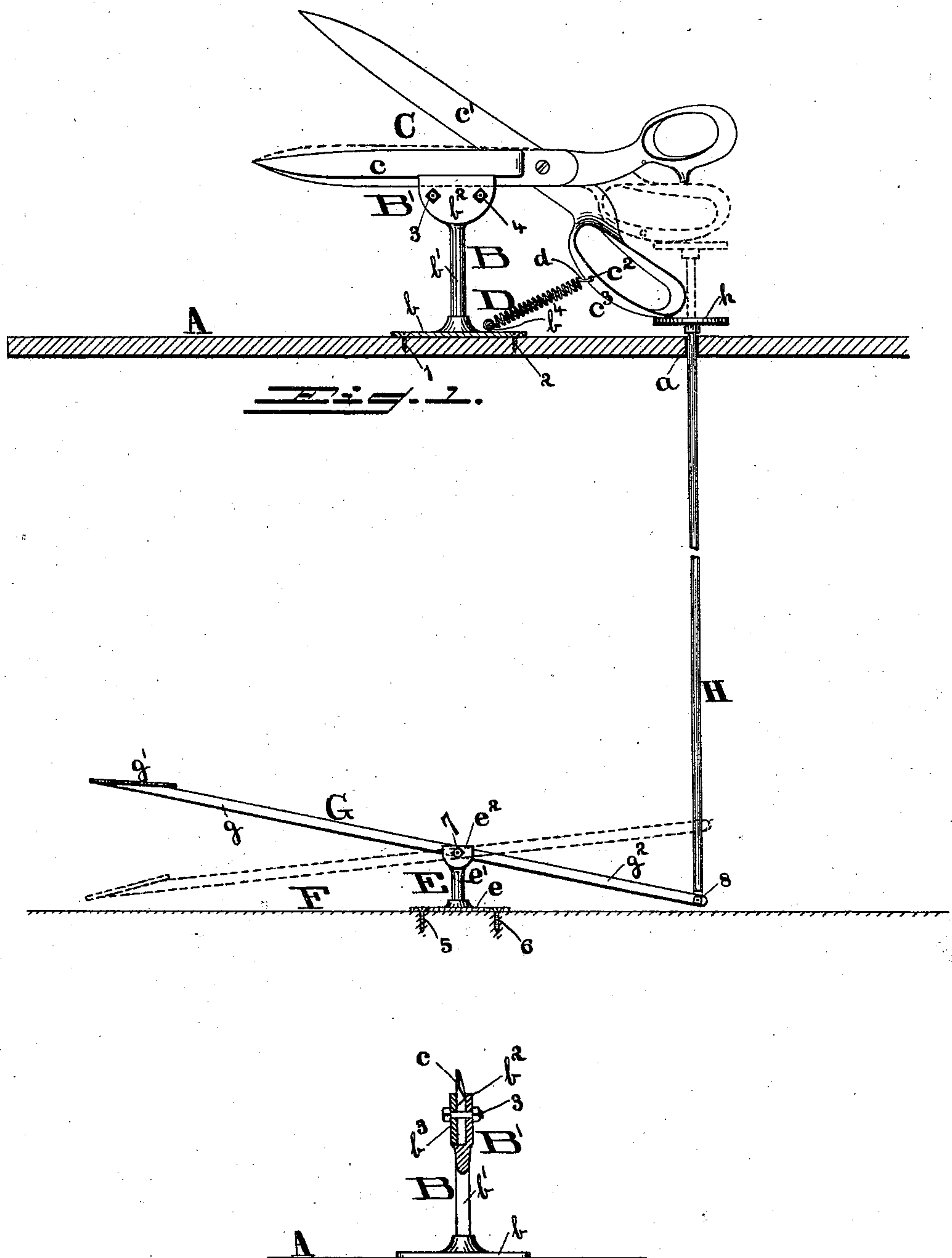


(No Model.)

I. MOSSOP.
HOSIERY CUTTING APPARATUS.

No. 517,706.

Patented Apr. 3, 1894.



WITNESSES

INVENTOR

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UNITED STATES PATENT OFFICE.

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HOSIERY-CUTTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 517,706, dated April 3, 1894.

Application filed June 29, 1893. Serial No. 479,158. (No model.)

To all whom it may concern:

Be it known that I, ISAAC MOSSOP, a citizen of the United States, residing at Wiconisco, in the county of Dauphin and State of Pennsylvania, have invented certain new and useful Improvements in Hosiery-Cutting Apparatus, of which the following is a specification.

My invention has relation to apparatus for cutting hosiery and has for its object the provision of certain new and useful improvements therein, to the end that the construction of the same may be simplified; the capacity thereof increased; and a saving in the expense of manufacture of the finished product effected.

Heretofore, hosiery cutting has, generally, been done by hand, using a pair of ordinary shears, which is a comparatively slow operation and requires the strength of hand of girls of mature years, who are commonly employed at this class of work, resulting in a degree of expenditure, for wages, which would not otherwise be necessary, and leaving but one hand of the operator free to guide the work, rendering it impossible, without the exercise of great care, to cut the goods off square.

My invention consists of an attachment, hereinafter fully described and claimed, which is readily applicable to an ordinary work-table, whereby a pair of common hand-shears are adapted for operation by foot-power, without necessitating any material change in the form of either or the exercise of skill or labor other than that possessed by a person of average intelligence, both hands of the operator being free to guide the work, permitting of a more perfect cutting thereof, in less time, and requiring less strength in the operation of the shears, than heretofore.

The details of construction and the combinations of parts which constitute my invention are clearly illustrated in the accompanying drawings, wherein—

Figure 1 is a side elevation of my invention complete and in position for operation, and Fig. 2 an edge view, partly in section, of the support for the shears.

Referring to said drawings, A represents the top of a cutting-table such as is usually found in hosiery mills, the same having secured thereon, by the screws 1 and 2 or oth-

erwise, the base-plate *b* of the shears-support B, said plate being so located relatively to the position of the operator as to permit of ready access being had to the shears which it supports and having secured thereto or integral therewith the standard *b'*, the latter terminating, at its upper end, in the clamp B', such clamp consisting of the fixed plate *b*², secured to or integral with the standard *b'*, and the movable plate *b*³, said plates having interposed between them and exerting sufficient pressure,—through the tightening of their bolts 3 and 4,—on one of the blades *c* of a pair of ordinary shears C, to attain the steady support of said shears in the desired position. The other blade *c'* of the shears has an opening *c*², in its handle *c*³, in which is secured one end *d* of the spiral spring D, the other end of which is passed through and secured to an eye *b*⁴ on the base-plate *b*.

E represents the treadle-support, consisting of a base-plate *e*, fastened to the floor F by screws or bolts, as at 5 and 6, and having secured thereto or integral therewith the standard *e'*, the latter terminating, at its upper end, in a pair of lugs *e*², between which is swung the treadle-lever G, said lever being pivoted on the bolt 7 which passes through said lugs and lever, or it may be otherwise pivotally supported. The free end *g* of the lever G is extended forward sufficiently to bring the foot-piece or treadle *g'* thereon within easy reach of the feet of the operator, while the end *g*² thereof is pivotally connected, through the medium of the bolt 8, to the vertically reciprocating rod H, said rod, near its upper end, extending through a vertical opening *a* in the table-top and having secured on such end a smooth faced disk *h*, the length of this rod being, of course, governed by the height of the table. As will be observed, when the various parts are in their normal positions, as illustrated in Fig. 1 of the drawings, the lower part of the outer end of the handle *c*³, of the shears C, rests upon the face of the disk *h* near the foremost edge, while, when the shears are closed and the disk at its highest point of movement, as illustrated by the dotted lines, such portion of said handle is over the face of said disk near its rearmost edge, the face of the disk being sufficiently smooth to permit of the sliding back and forth

of the handle c^3 thereon, during the reciprocation of the rod H, with very little friction, said handle and disk being maintained in operative relation and secured against rattling, and the movements of the treadle-rod G controlled, through the draft of the spring D on the handle. Obviously, the relative positions of the support B and the disk h are such as to permit of various length of shears being employed to equal advantage, it being only necessary to secure the stationary blade at such point as will permit the handle of the movable blade to rest on the face of said disk. It will thus be seen that, in addition to the advantage of the operator's having free use of both hands, the provision of the treadle-mechanism affords greater leverage than can be obtained through the operation of the shears by hand, which, combined with the increased strength of the feet over that of the hand, permits of the heaviest work being done with the exertion of no more strength than is natural to a mere child.

What I claim as my invention is as follows:

1. In a cutting apparatus, the combination of a suitably supported clamp; suitable treadle-mechanism; a reciprocating rod actuated by such mechanism and provided with a flat disk; and a pair of shears sustained by the clamp and having one of its handles in

sliding relation with said disk, substantially as specified.

2. In a cutting apparatus, the combination of a suitably supported clamp; suitable treadle-mechanism; a reciprocating rod actuated by such mechanism and provided with a flat disk; a pair of shears sustained by the clamp and having one of its handles in sliding relation with said disk, and a spring for maintaining said handle and disk in such relation, substantially as specified.

3. In a cutting apparatus, the combination of a table; the support B secured to the table by its base-plate b ; the clamp B' ; a pair of shears having one blade secured between the plates $b^2 b^3$ of the clamp; suitable treadle-mechanism; a vertically reciprocating rod actuated by the latter and terminating in a disk h ; the handle of the other blade of the shears being in sliding contact with the face of the disk; and a spiral spring attached to said plate and handle and maintaining the latter in such relation with said disk, substantially as specified.

In testimony whereof I have hereunto set my hand this 22d day of June, A. D. 1893.

ISAAC MOSSOP.

Witnesses:

J. N. LENKER,

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