(No Model.)

P. HAASE.

SHEARS.

No. 571,160. Patented Nov. 10, 1896.

Fig. 1.

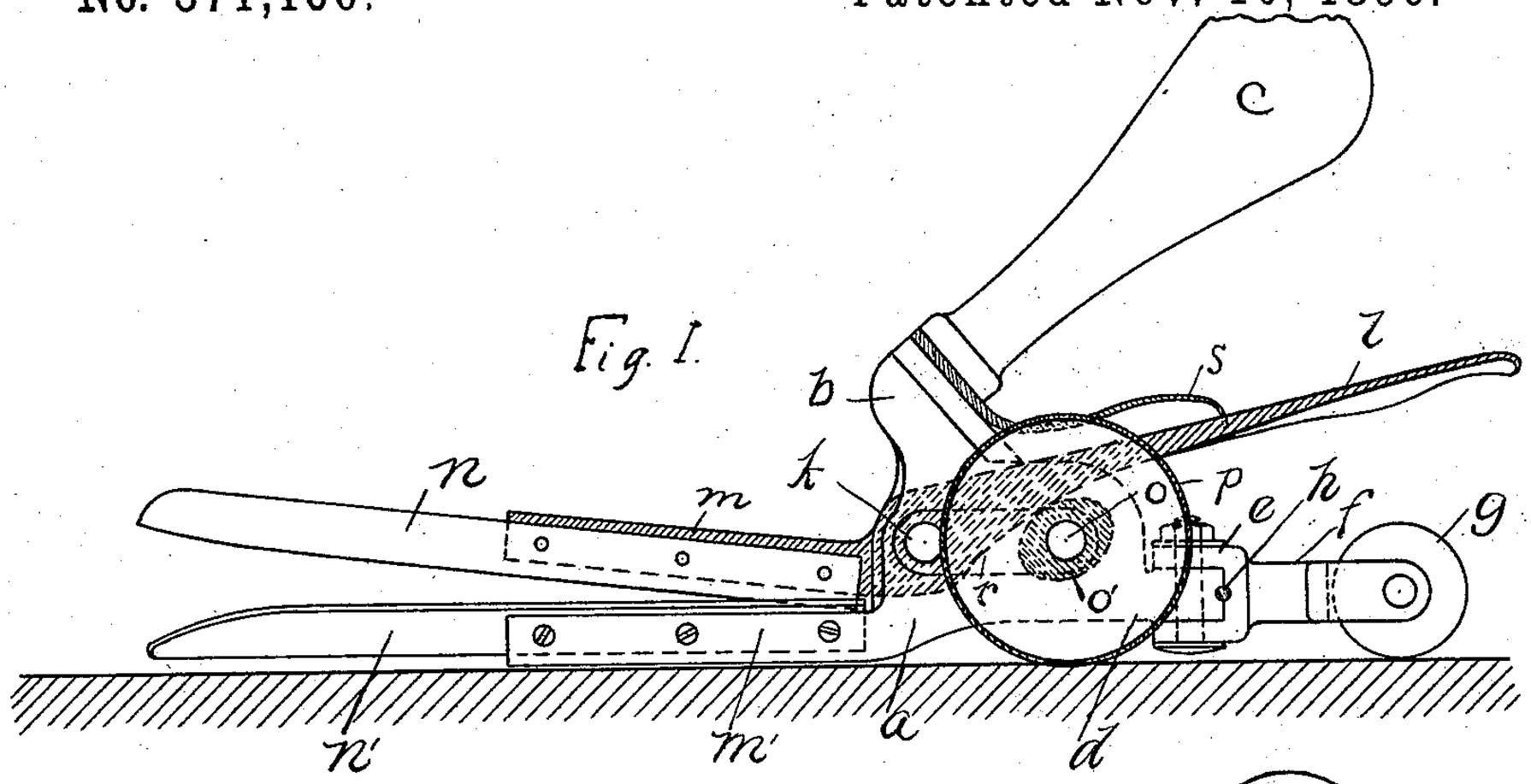


Fig. 2.

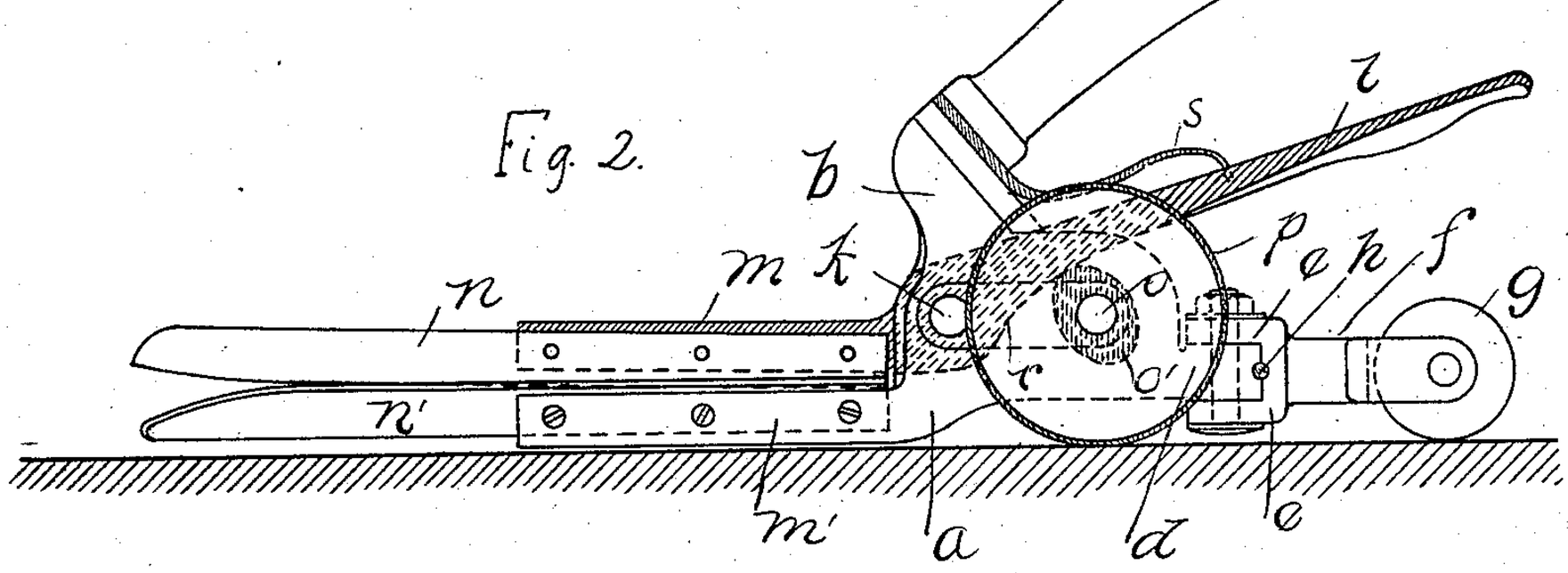
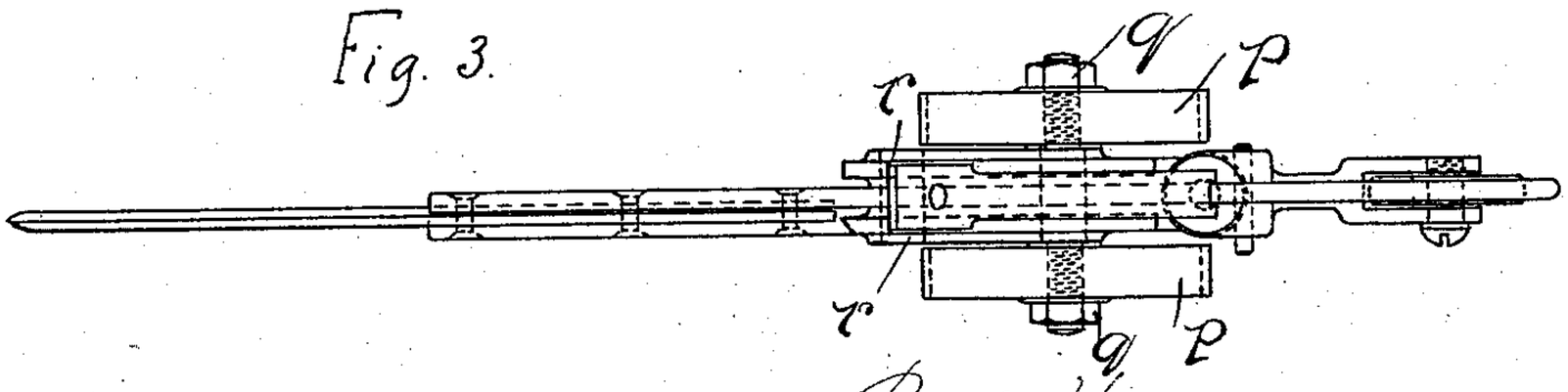


Fig. 3.



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SHEARS.

SPECIFICATION forming part of Letters Patent No. 571,160, dated November 10, 1896.

Application filed May 22, 1896. Serial No. 592,603. (No model.)

To all whom it may concern:

Be it known that I, PAUL HAASE, a subject of the German Emperor, residing at Chemnitz, Kingdom of Saxony, Germany, have invented certain new and useful Improvements in Shears, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in shears, and relates more particularly to that class having a traveling motion to carry the same forward while the cutting-blades are in engagement with the cloth or other material on which they are being used.

The invention has for its object the provision of new and novel means, whereby the operation of pushing the shears forward on the table will operate the cutting-blades and keep the same in engagement with the material until the length of the cut has been completed.

A still further object of the invention is to construct a device of the above-described class, whereby a serrated edge may be cut on the material when so desired; furthermore, an extremely simple construction to accomplish the above results, and one that will be effectual in its operation, strong, durable, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the several views, in which—

Figure 1 is a side elevation, partly in section, showing the blades in the open position. Fig. 2 is a similar view showing the blades in a closed position. Fig. 3 is a top plan view with the handle removed.

In the drawings, *a* represents the frame, formed with an upwardly-extending portion *b*, in which is secured the handle *c*. The frame is also provided at its rear end with a lug *d*, which is pivotally secured in jaws *e e* of an arm *f*, having jaws at its outer end, in which is journaled a wheel *g*. The lug *d* and an arm *f* are grooved to receive a pin *h*, one half engaging in the arm, and one half in the lug *d*, forming a lock to hold the arm rigid with the frame.

The frame portion which forms the casing has secured therein a handle *l*, extending rearwardly through the casing, and with a forwardly-extending plate *m*, to which is secured the upper cutting-blade *n*. The casing or frame portion is also formed with a forwardly-extending plate *m'*, conforming with the plate *m*, and to which is secured the lower cutting-blade *n'*. A shaft *o* is also journaled with the frame and carries an elliptic *o'* within the casing and rubber-tired wheels *p p* outside the casing, said shaft being screw-threaded on its end to receive the wheels, and provided with nuts *q q* to hold same in position. Links or plates *r r* connect the two shafts *k* and *o* together, said links being rigidly attached to the shaft *k*, and the shaft *o* operates in the opposite end of links or plates. A spring *s* is secured against the rear face of the upwardly-extending portion *b* of the frame by means of the screw-pin in the end of the handle *c*, the lower end of said spring engaging in the handle *l*, permitting the operation of the blades without moving the frame, if so desired.

The operation of my improved shears will be readily apparent from the views of the same that I have shown in the drawings. I will assume, however, for the purpose of more clearly illustrating the operation of the same, that the parts have all been secured in their respective positions and it is desired to operate the shears. When the same have been placed on the table with the rubber-tired wheels *p p* in engagement therewith, the operator grasps the handle *c* and pushes forward and downward on same, causing the wheels to revolve and the elliptic to turn half-way and allowing the handle *l* to descend, thus elevating the upper blade to the position shown in Fig. 1. As the wheels continue to revolve the elliptic will again engage the handle *l* with its greatest diameter, which will force the upper blade downward to engage with the lower blade and cut the material.

Should it be desired to cut a serrated edge

on the goods, the pin *h* is removed, thus forming a knuckle-joint within the jaws *e e* and permitting the moving of the blades in a waving manner at the same time that they are being moved forward.

Should the operator wish to use the shears without pushing the same forward, he will grasp both handles *c* and *l*, and by lifting or pulling on the handle *l* will lower the upper blade. When the hold on the handle *l* is released, the spring *s* will return same to its normal position and force the upper blade away from the lower one in the same manner as in the ordinary shears.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

1. In combination, a frame having a forward extension carrying a blade, and a rearward extension, an arm pivoted to the rear extension means for controlling the action of the joint, a shaft journaled in the frame, wheels mounted on the shaft, an elliptic carried by the shaft, a handle pivoted to the frame having a forward extension carrying a cutter, said handle having a rearward extension engaged and operated by the elliptic, substantially as described.

2. In combination, a frame having a front and rear extension, a cutter carried by the forward extension, an arm pivoted to the rear extension, a wheel on the arm, a pin for controlling the arm, a shaft journaled in the frame, wheels on the shaft, an elliptic on the shaft, a handle pivoted to the frame, front and rear extensions formed with the handle, a cutter carried by the forward extension, the rear extension being engaged and actuated by the elliptic and a pin engaging the rear extension, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

PAUL HAASE.

Witnesses:
A. M. WILSON,
H. E. SEIBERT.