

H. B. SEVEY.  
BLACKSMITHS' ANVILS.

No. 189,393.

Patented April 10, 1877.

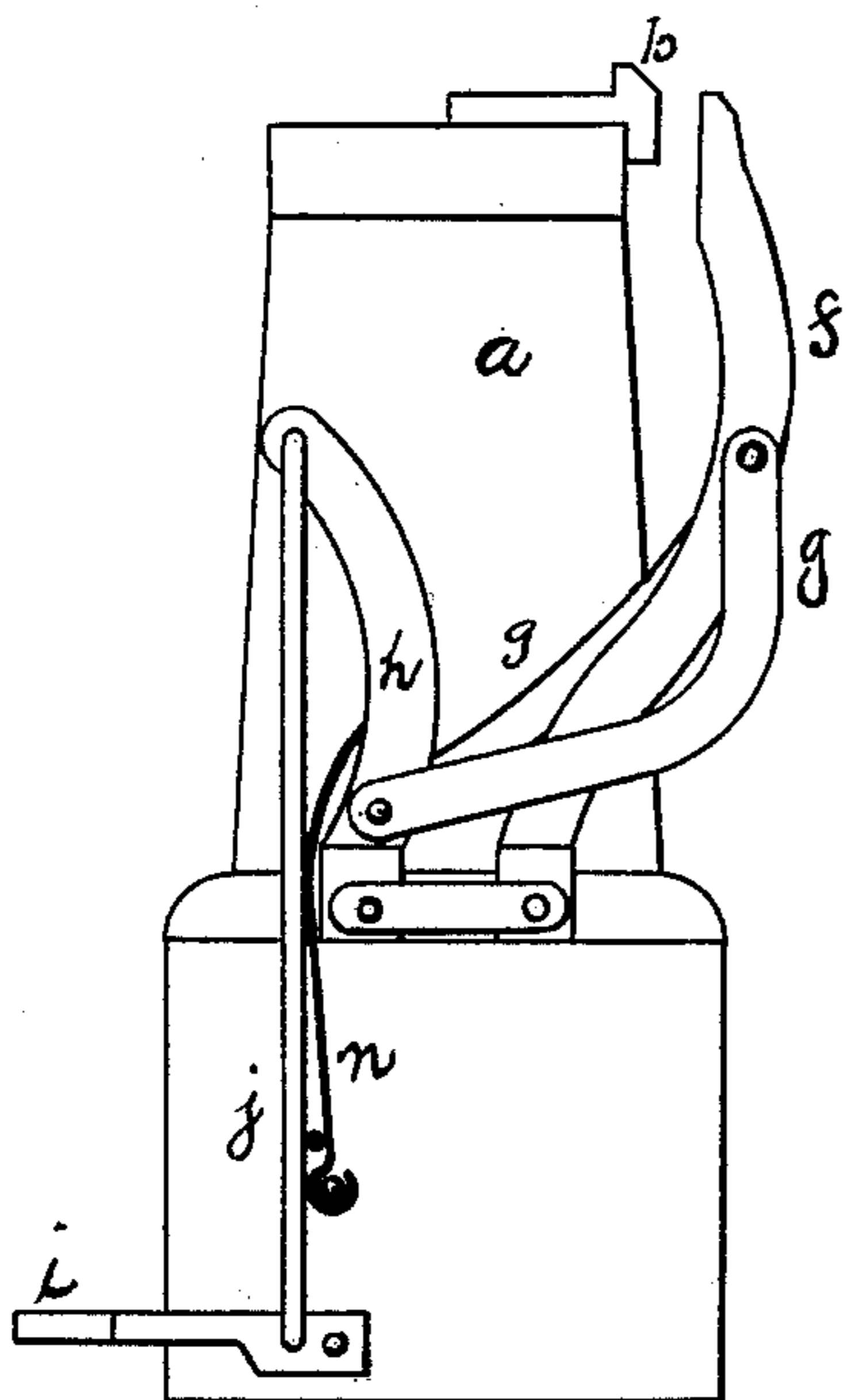


Fig. 1.

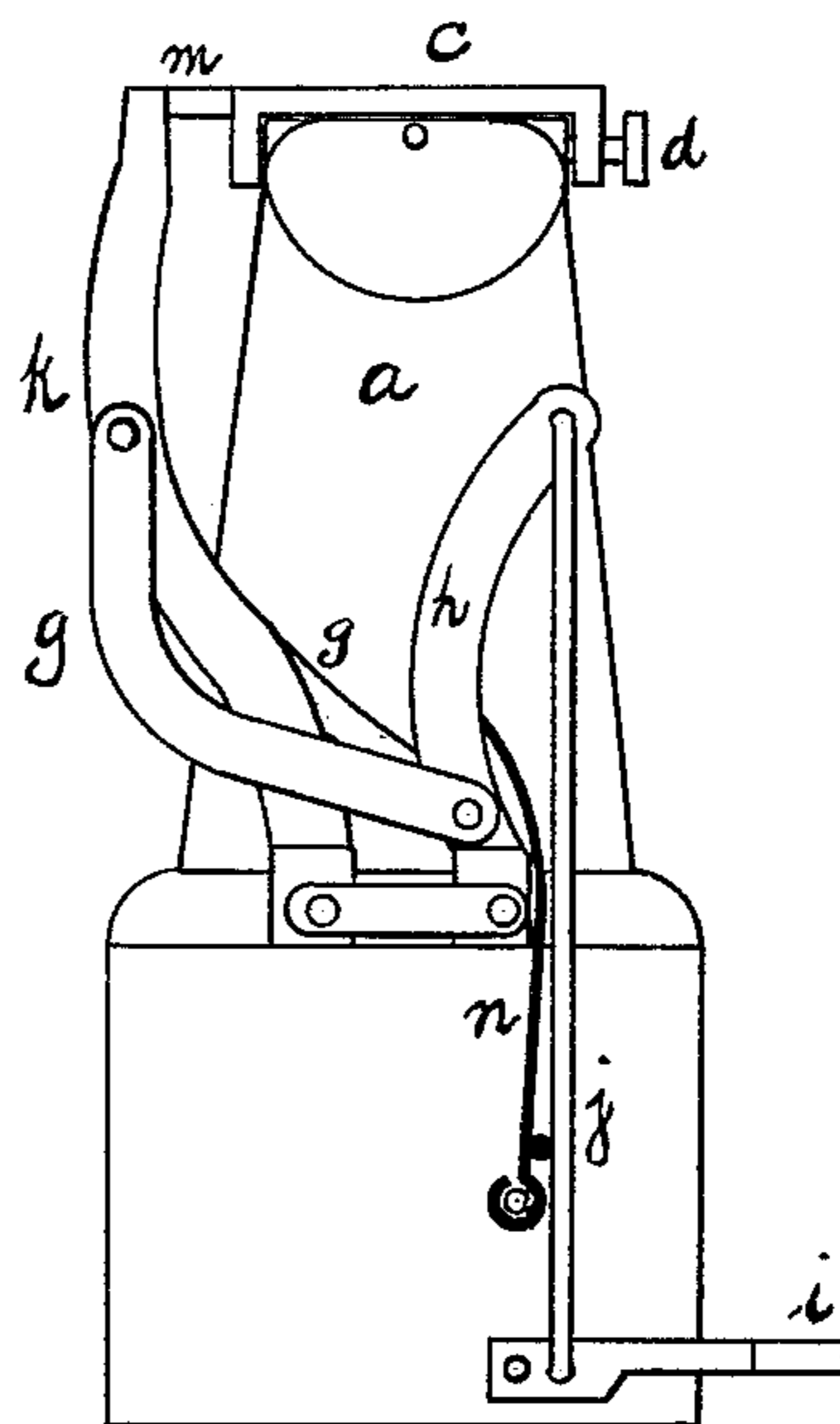


Fig. 2.

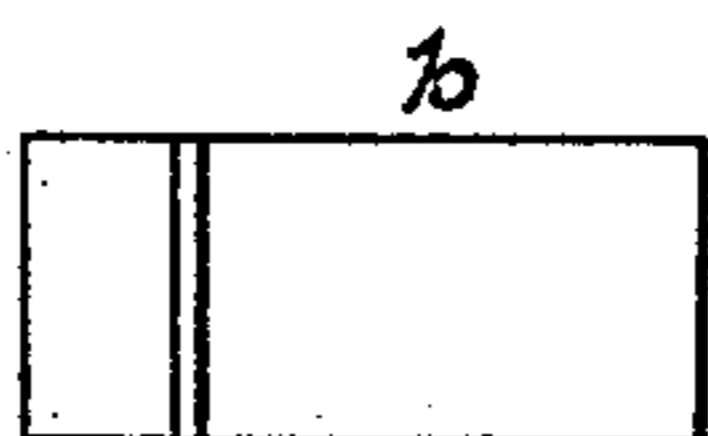


Fig. 3.

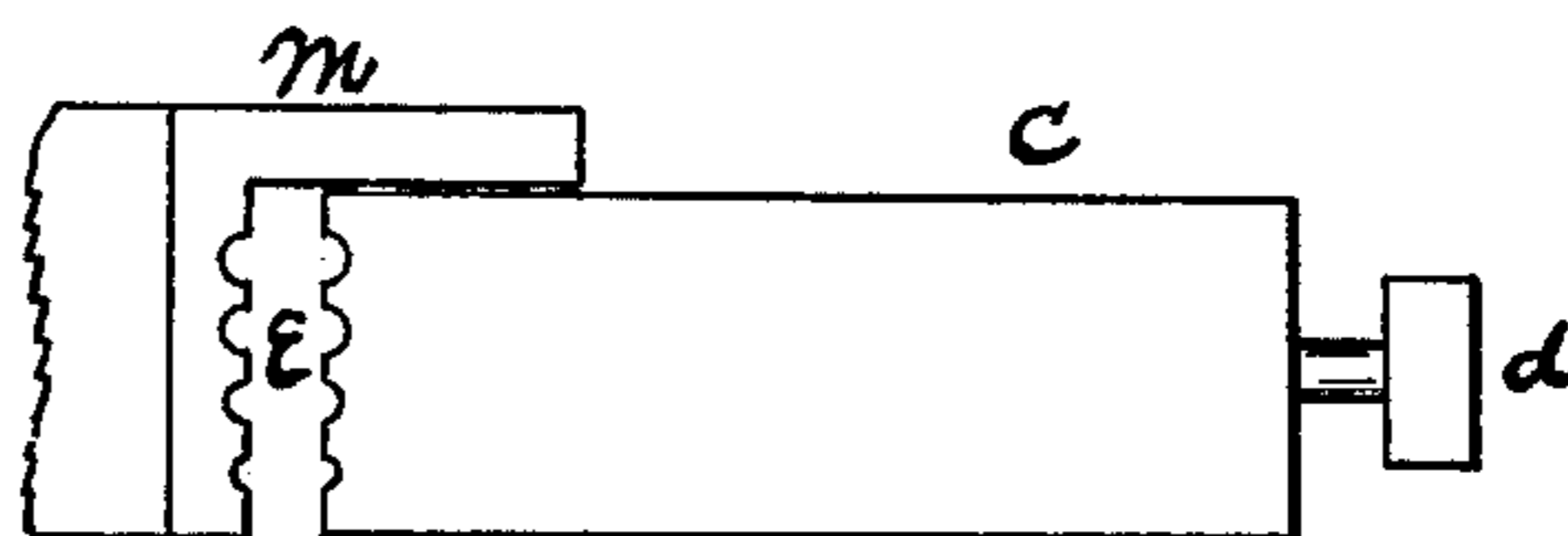
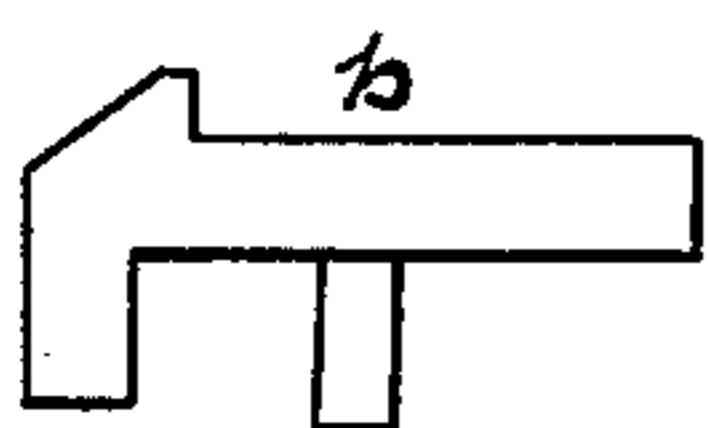


Fig. 4.

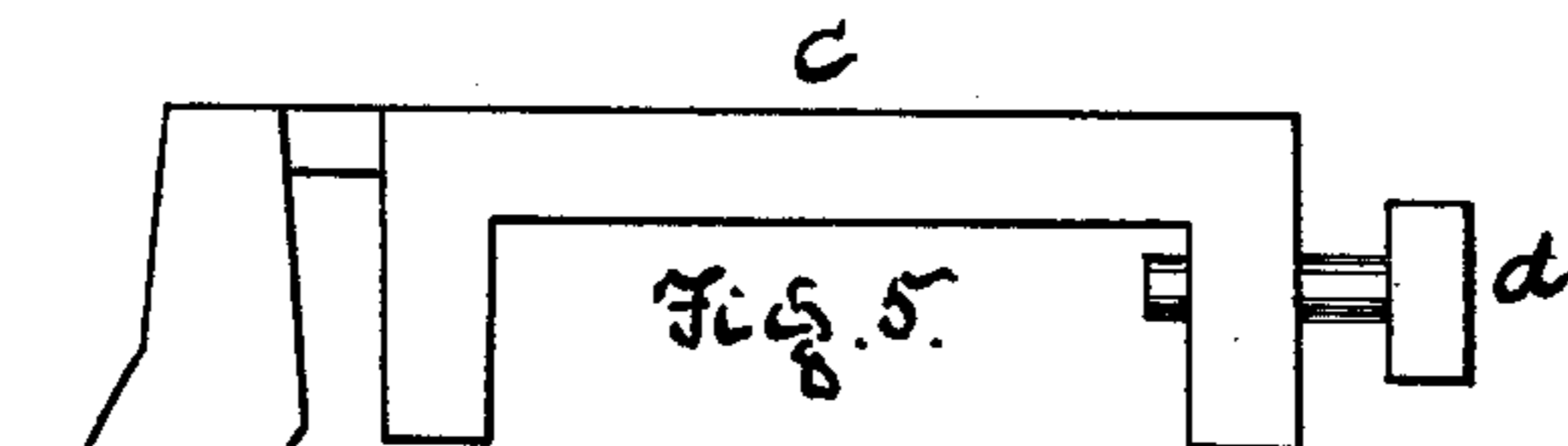


Fig. 5.

Witnesses  
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# UNITED STATES PATENT OFFICE.

HIRAM B. SEVEY, OF VIENNA, MAINE.

## IMPROVEMENT IN BLACKSMITHS' ANVILS.

Specification forming part of Letters Patent No. **189,393**, dated April 10, 1877; application filed February 7, 1877.

*To all whom it may concern:*

Be it known that I, HIRAM B. SEVEY, of Vienna, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Anvils; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is an end view of the anvil, showing the vise. Fig. 2 is an end view of the anvil, showing the bolt-heading device. Fig. 3 is a detail of the swage. Figs. 4 and 5 are details of the clasp.

The object of my invention is to furnish novel vise and bolt-heading attachments for anvils, which are so constructed that they can be easily applied to any of the anvils now in common use.

The chief characteristics of this invention are its simplicity and the compact arrangement of its parts, all its parts being so constructed as never to be in the way of the workman, besides combining in one device an anvil, vise, and bolt-header.

The combination, construction, arrangement, and operation of my said invention will be readily understood by reference to the description hereinafter set forth.

In the drawings, *a* represents the anvil. In the face of the anvil is a square opening, in which is placed the swage *b*, having the form shown in Fig. 3, and being so constructed that it can be easily removed, if, for any reason, it should be in the way.

To the horn of the anvil is fastened the clasp *c*, of the form shown in Fig. 4, which is rigidly attached by means of the set-screw *d*, and has the grooves *e*.

*f* is a jaw of a vise. *g* are bands, one of which has the curved shape, as illustrated in the drawings, and connecting the jaw *f* to the lever *h*, which, in turn, is joined to the treadle *i* by the rod *j*.

When desirable to use the vise, power is applied to the treadle *i*, which causes the jaw *f* to press against the swage *b*, firmly and securely holding anything placed between them.

*k* is of the same form as *f*, and is operated by the same methods, but is for an entirely different purpose, viz.: heading bolts while *f* is used simply as a vise. It has at its upper end grooves to match those in the clasp *c*. These grooves are of different size, to fit different sizes of iron rods in turning bolt-heads.

*m* is a short arm, which projects from the head of *k* over the horn of the anvil, and gives strength and rigidity to the bolt-header by keeping the upper part in place and relieving the lower part, where it is fastened to the anvil, of the great strain which would be incurred by incessant hammering. *n* are springs to throw back the parts *f* and *k*.

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

The combination of an anvil with the swage *b*, jaw *f*, bands *g*, treadles *i*, rods *j*, springs *n*, levers *h*, part *k*, clasp *c*, having the grooves *e*, and set-screw *d*, arm *m*, all operating as and for the purposes herein described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

H. B. SEVEY.

Witnesses:

F. C. FELLOWS,  
SYLVANUS FAIRBANKS.