

C. Jilson.

Turner Turning Mach

N^o 95,117.

Patented Sept. 21, 1869.

Fig. 1.

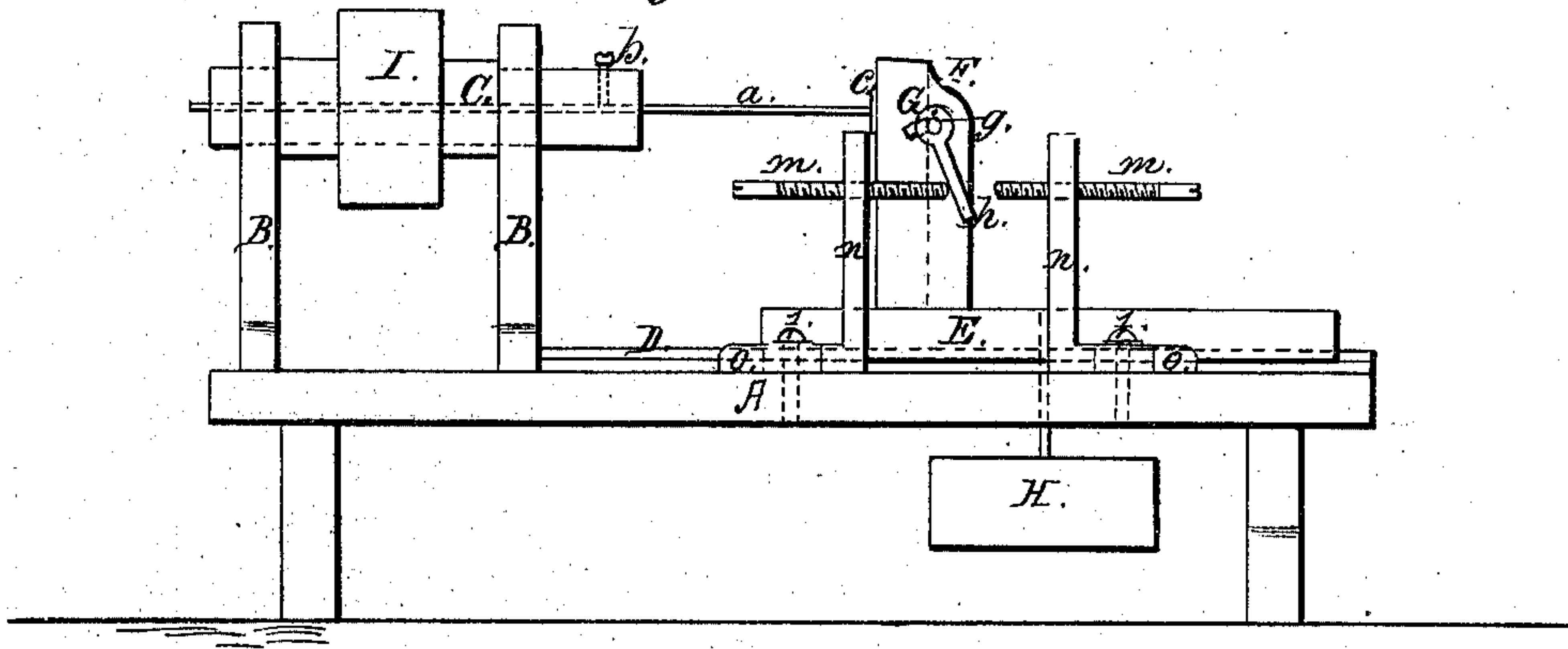


Fig. 2.

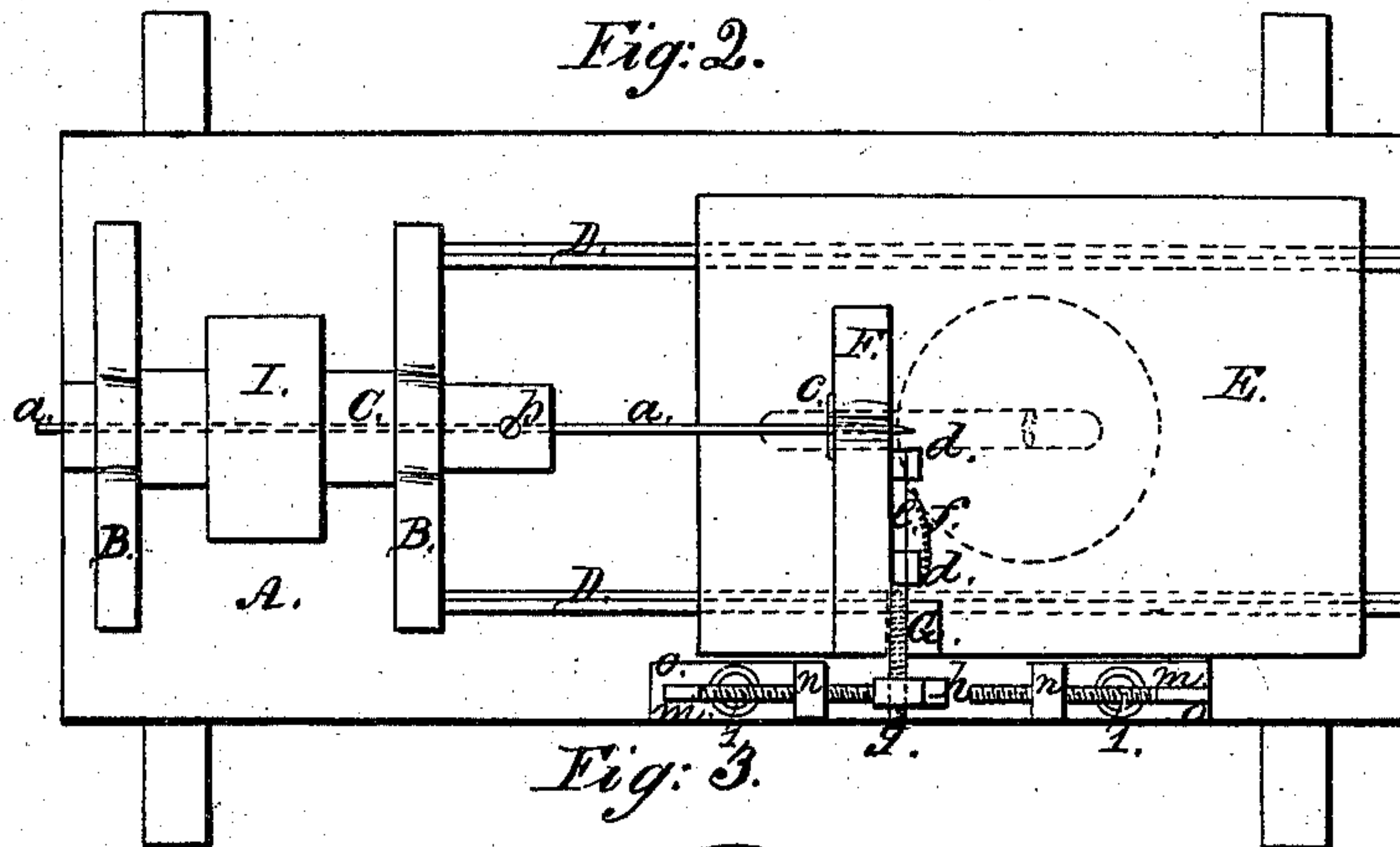
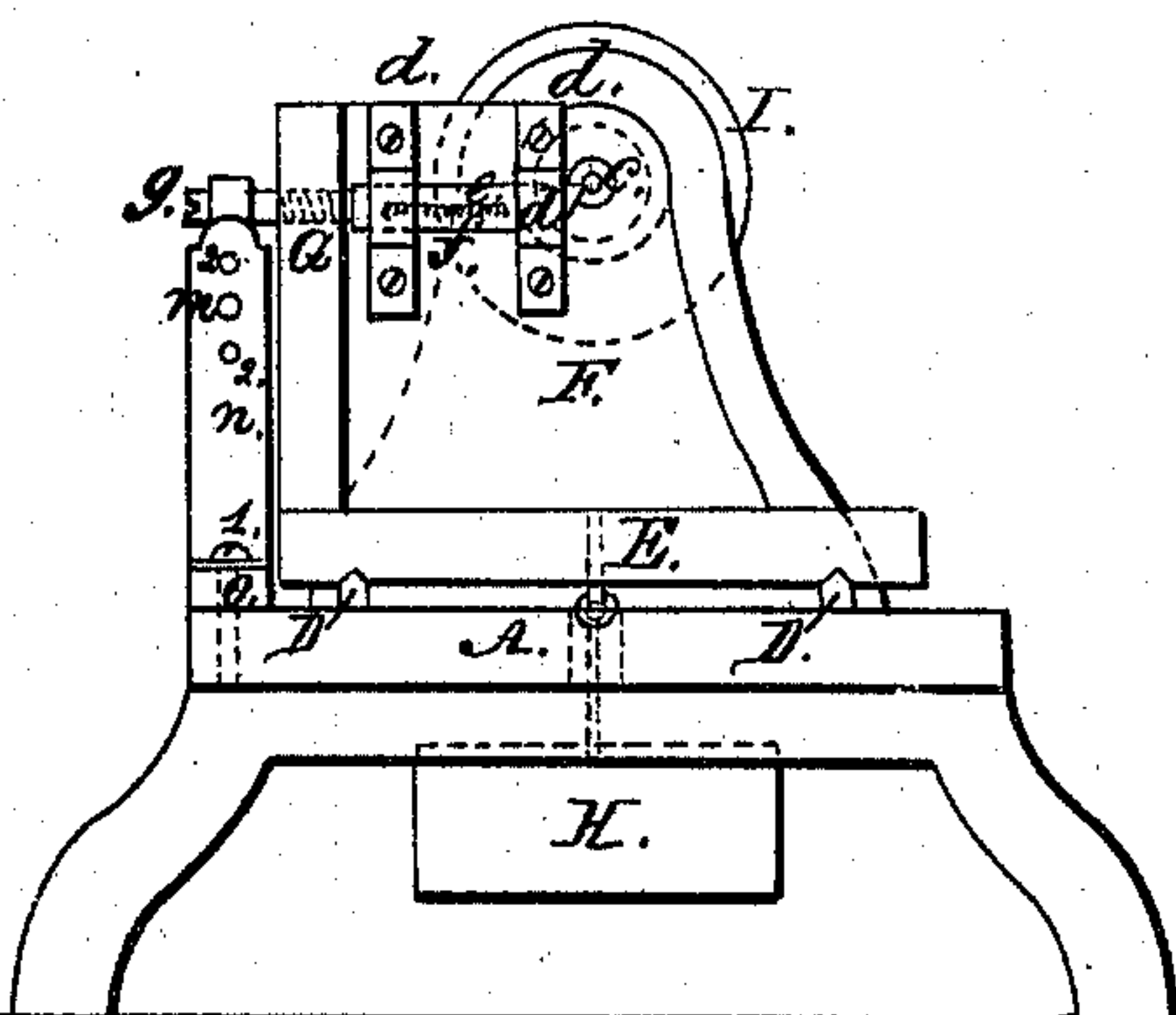


Fig. 3.



Witnesses:

Thos H. Dodge
Geo H. Miller

Inventor:

Clark Jilson

United States Patent Office.

CLARK JILLSON, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 95,117, dated September 21, 1869.

IMPROVED MACHINE FOR TURNING TAPERS.

The Schedule referred to in these Letters Patent and making part of the same.

Know all men by these presents:

That I, CLARK JILLSON, of the city and county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Machines for Turning Tapers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a side view of my machine for turning tapers;

Figure 2 represents a top or plan view; and

Figure 3 represents a front view.

To enable those skilled in the art to which my invention belongs, to make and use the same, I will proceed to describe the same more in detail.

The nature of my invention consists—

First, in the combination, with said tool-operating screw, of a pendent arm and guide-screw, as will be hereafter explained; and

Second, in the combination, with the pendent arm, of two adjustable guide-screws, as will be hereafter set forth.

In the drawings—

A represents the base of the machine, upon which are supported the bearing-pieces B B, in which turns the operating-shaft or spindle C, having a hole through its centre for the passage of the wire *a*, or other articles to be pointed or tapered.

A set-screw, *b*, is inserted in the front of spindle C, to hold the wire *a*, or articles to be pointed in position while the taper is being turned.

Upon ways D D a sliding table, E, is arranged to move back and forth.

Upon this table is secured the stand F, in which is fitted an eye or rest, *c*, and on the front of said stand are secured two guide-pieces *d d*, having notches or recesses to receive the cutting-tool *e*, which is drawn back by means of the spiral spring *f*, one end of which is attached to the cutting-tool, and the other to the outer guide-piece *d*.

The cutting-tool is forced toward the centre of the eye or rest *c*, by means of a screw, *g*, which passes through a flange, G, on the stand F, said screw having a pendent arm, *h*, secured to its outer end, as fully shown in fig. 1.

The lower end of the pendent arm *h* extends down between the inner ends of the adjustable guide-screws *m*, which are fitted in the standards *n n*.

The feet *o o* of the standards *n n* are slotted, so that they can be adjusted toward or from each other, and are secured in place upon the base A by the set-screws 1 1.

The stands *n* are provided with a series of holes, 2, so that the screws can be adjusted nearer to or further from the centre of the tool-operating screw *g*.

The table E may be held on its ways by means of a weight, H, suspended from its under side.

The operation is as follows:

The wire, or other articles upon which a taper is to be turned, is passed through the hole in the spindle C, and secured by means of the set-screw *b*.

A rapid motion is now imparted to spindle C by means of a belt running upon pulley I.

Table E is now run on its ways toward the spindle C by means of a lever, or otherwise, and by which operation the end of the article to be tapered will run through the eye or rest *c*, and the screw *g* turned back in consequence of its pendent arm striking against the end of one of the screws *m*, as shown in fig. 1, whereby the end of the wire will be turned in taper form.

By adjusting the screw-rods *m* up or down, a greater or less taper may be given to the end of the wire turned.

Having described my improved machine for turning tapers,

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

1. The combination, with the tool-operating screw and pendent arm *h*, of a guide-screw, substantially as and for the purposes set forth.

2. The combination, with the pendent arm, of two adjustable guide-screws *m m*, arranged relatively to each other, as shown in the drawings, and for the purposes set forth.

CLARK JILLSON.

Witnesses:

THOS. H. DODGE,
GEO. H. MILLER.