

J. HOLT.
SAW-TABLE.

No. 176,785

Patented May 2, 1876.

Fig. 1

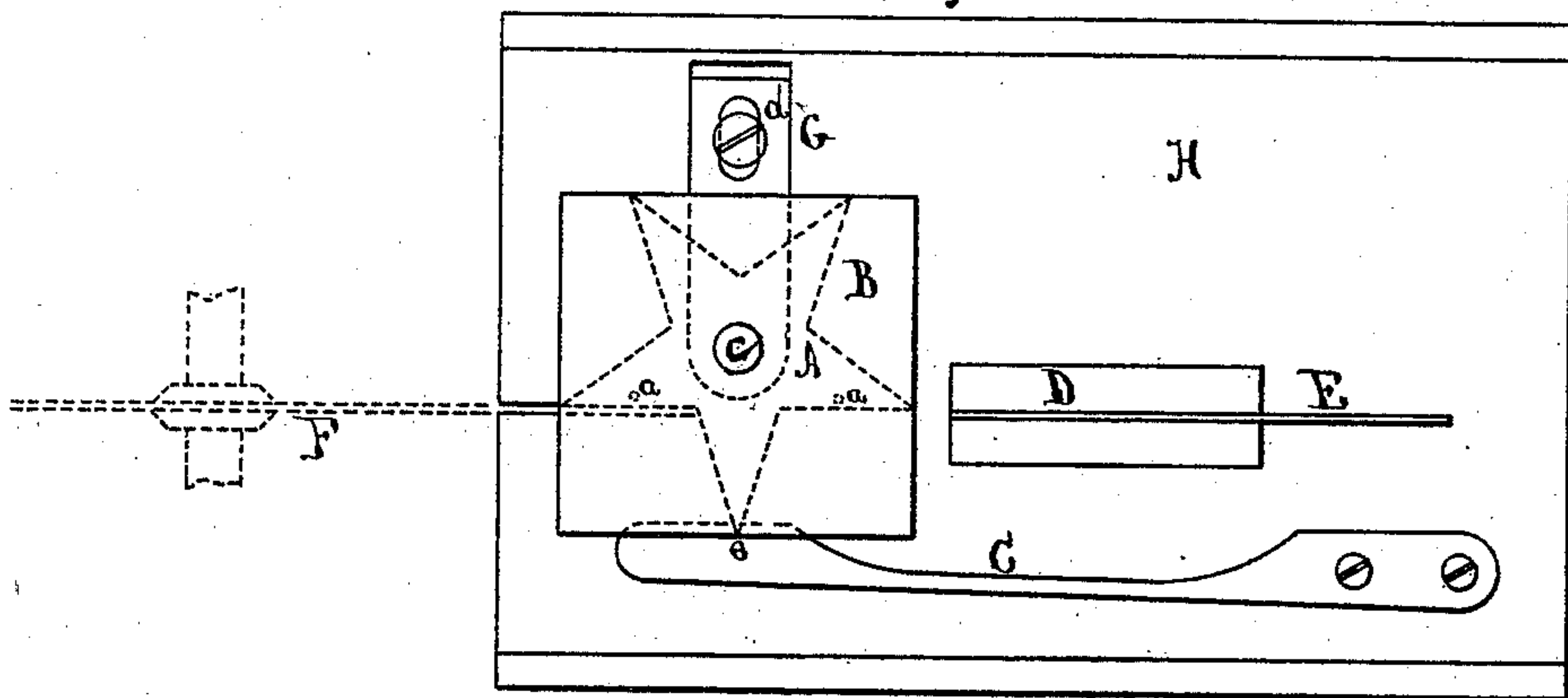


Fig. 2

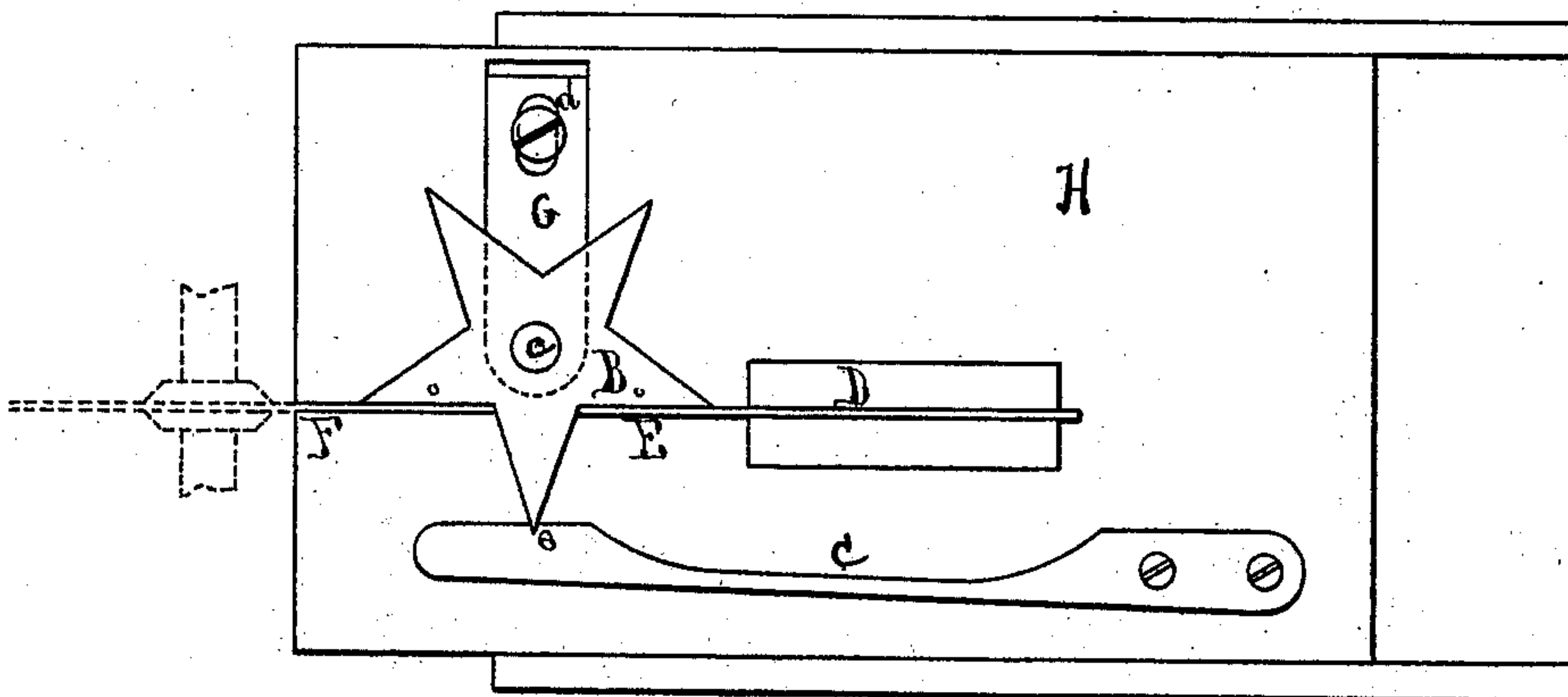
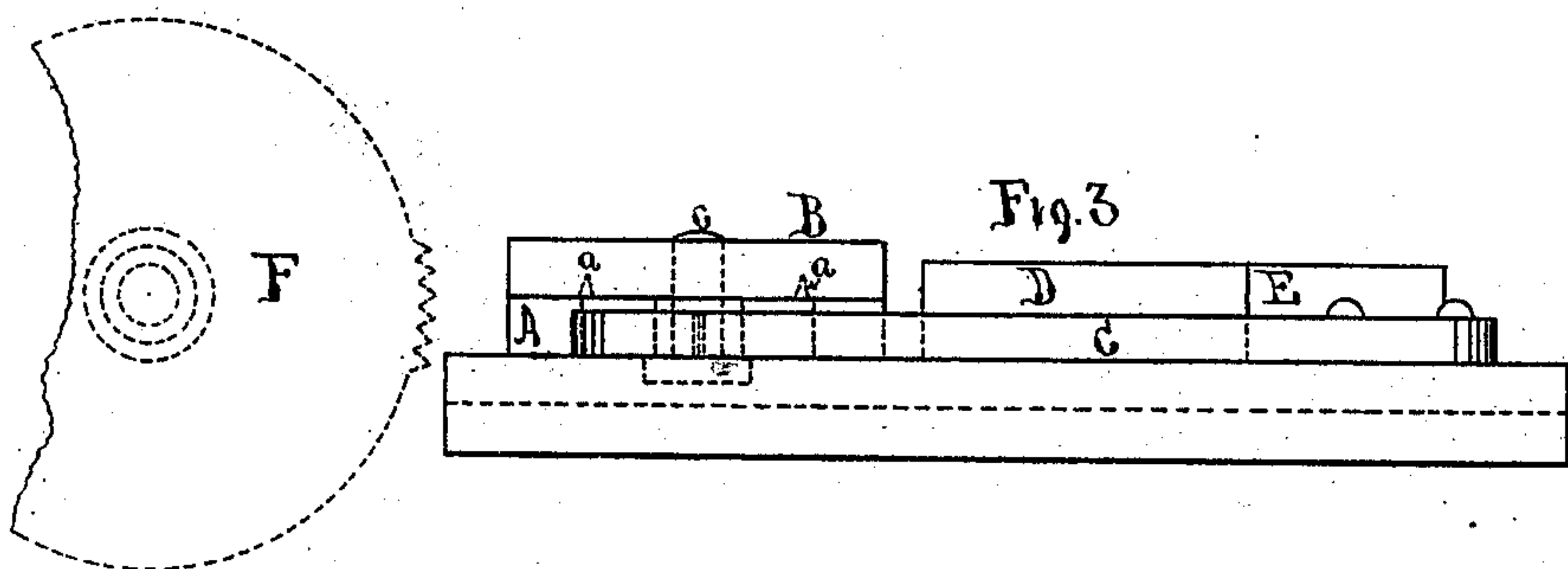


Fig. 3



Witnesses.
Wm. S. Brown
M. M. Tiedel

Inventor.
J. Holt
by Alfred K. Garland
att'y

UNITED STATES PATENT OFFICE.

JOHN HOLT, OF LOWELL, MASSACHUSETTS.

IMPROVEMENT IN SAW-TABLES.

Specification forming part of Letters Patent No. **176,785**, dated May 2, 1876; application filed April 3, 1876.

To all whom it may concern:

Be it known that I, JOHN HOLT, of Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Saw-Tables for Sawing Regular Forms, of which the following is a specification:

My invention relates to a new and improved device for cutting certain kinds of regular forms, the object of my invention being to provide suitable mechanism, so that any number of forms may be quickly and cheaply made of exactly the same shape and size.

My invention is chiefly applicable to the cutting of wooden stars, used as dies in the manufacture of flags, the process of dyeing the field requiring a large number of dies, which must constantly be renewed, and which must be of exactly the same size.

Heretofore it has been found exceedingly difficult and expensive to make these dies true, so that in the process of dyeing the field the edge of the star will not be blotted or blurred.

My invention is intended to overcome this difficulty; and consists in placing a pattern upon a saw-table, upon which is placed the wooden block to be formed into the die. This pattern is so placed relatively to the saw that one side of the pattern shall be in a straight line with the plane of the saw. The alternate sides of the star or other forms are then cut according to the pattern, when the block is turned and reset by means of a guide and the other sides cut, as hereinafter described.

In the drawings, Figure 1 is a top view of a movable saw-table, showing the guide and block placed upon the pattern. Fig. 2 is a top view with the block removed. Fig. 3 is a side view.

A is a pattern, which is placed upon a post, *c*, so that one side will be in a straight line with the plane of the saw, and as the pattern is turned around each alternate side will be brought in the same plane. G is a spring, so placed upon the sliding table H that the notch *e* will catch each corner of the pattern, and prevent any lateral motion of it and the block. D is the guide-holder, in the top of which is a groove cut longitudinally, in which the guide

E slides. I show this guide in the drawing in the same vertical plane with the saw; but the holder may be placed in any other convenient position if the groove is in the same plane with the side of the pattern. When the alternate sides are cut, and the block turned upon the post, before it is pressed down upon the points *a a* the guide is pressed into the cut made by the saw. By this means the block is quickly set perfectly true upon the pattern.

A block of any required thickness is placed over the pattern upon the post *c*, and is held firmly in its place by the points *a a*. The saw-table H, which may be gaged to move forward any required distance, is then pushed ahead, and one side cut by the saw F. The pattern, carrying the block with it, is then turned around, so that the next corner of the pattern is caught by the notch *e*, when another side is cut, thus cutting the block along each alternate side of the pattern. The block is then taken off, and turned over and placed upon the post and pattern again, the guide E being pushed forward into the cut made by the saw, as shown in Fig. 2, while the block is pressed down upon the points *a a* to bring it to the right position, when the guide is drawn back, and the other alternate sides of the star are cut in like manner. The post *c* is set upon a movable plate, G, which may be readily adjusted to any size of pattern by means of the slot and screw *d*.

In the drawings I show a sliding table; but my improvements are equally applicable to a stationary table and movable saw.

I claim as new and of my invention—

1. The combination of the pattern A, spring-catch C, and table H, substantially as described.

2. The combination of the pattern A, table H, and sliding guide E, substantially as described.

3. The combination of the adjustable pattern-stud *c* with the table H, pattern A, and spring-catch C, substantially as described.

JOHN HOLT.

Witnesses:

E. S. MIFLAN,
J. N. MARSHALL.