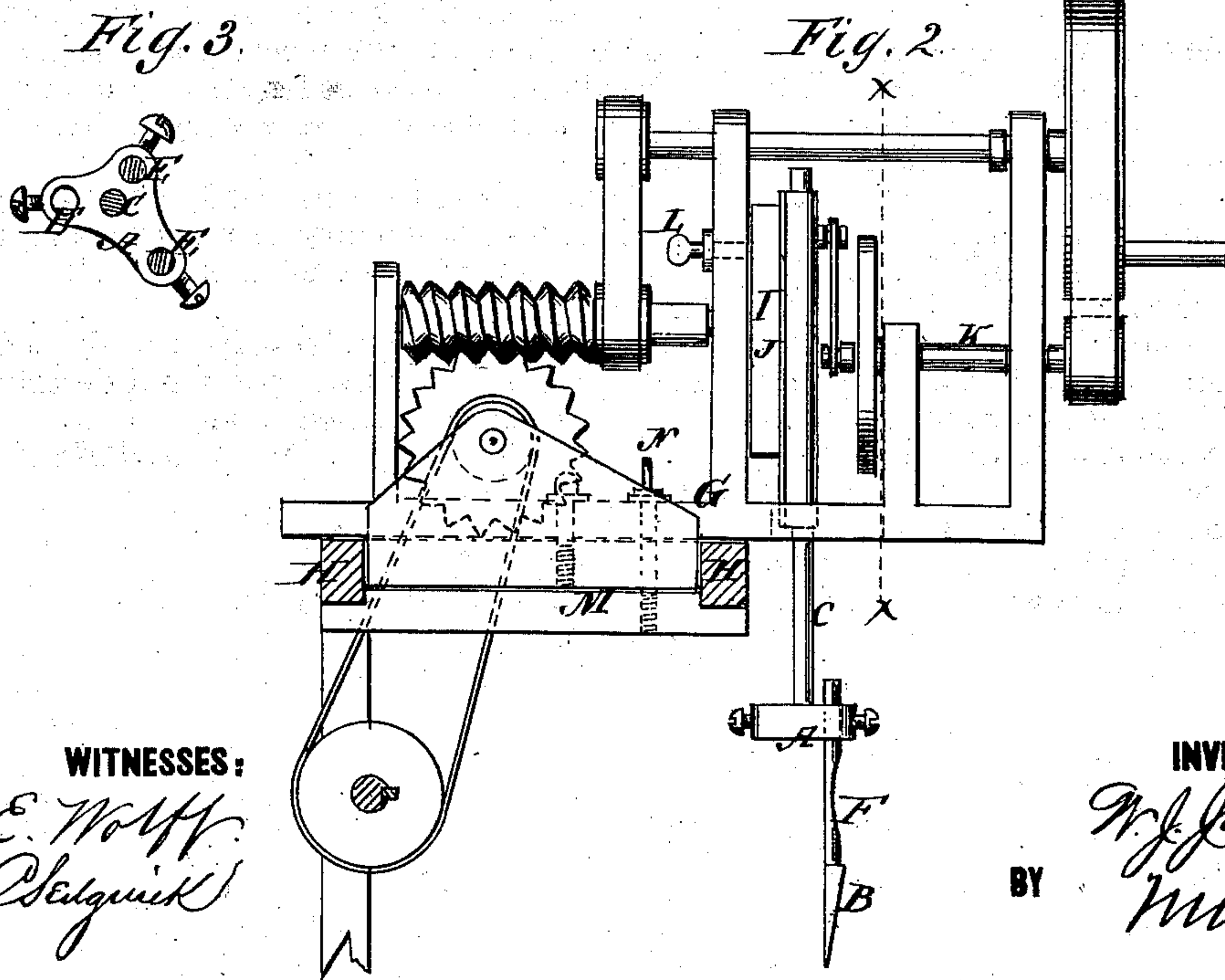
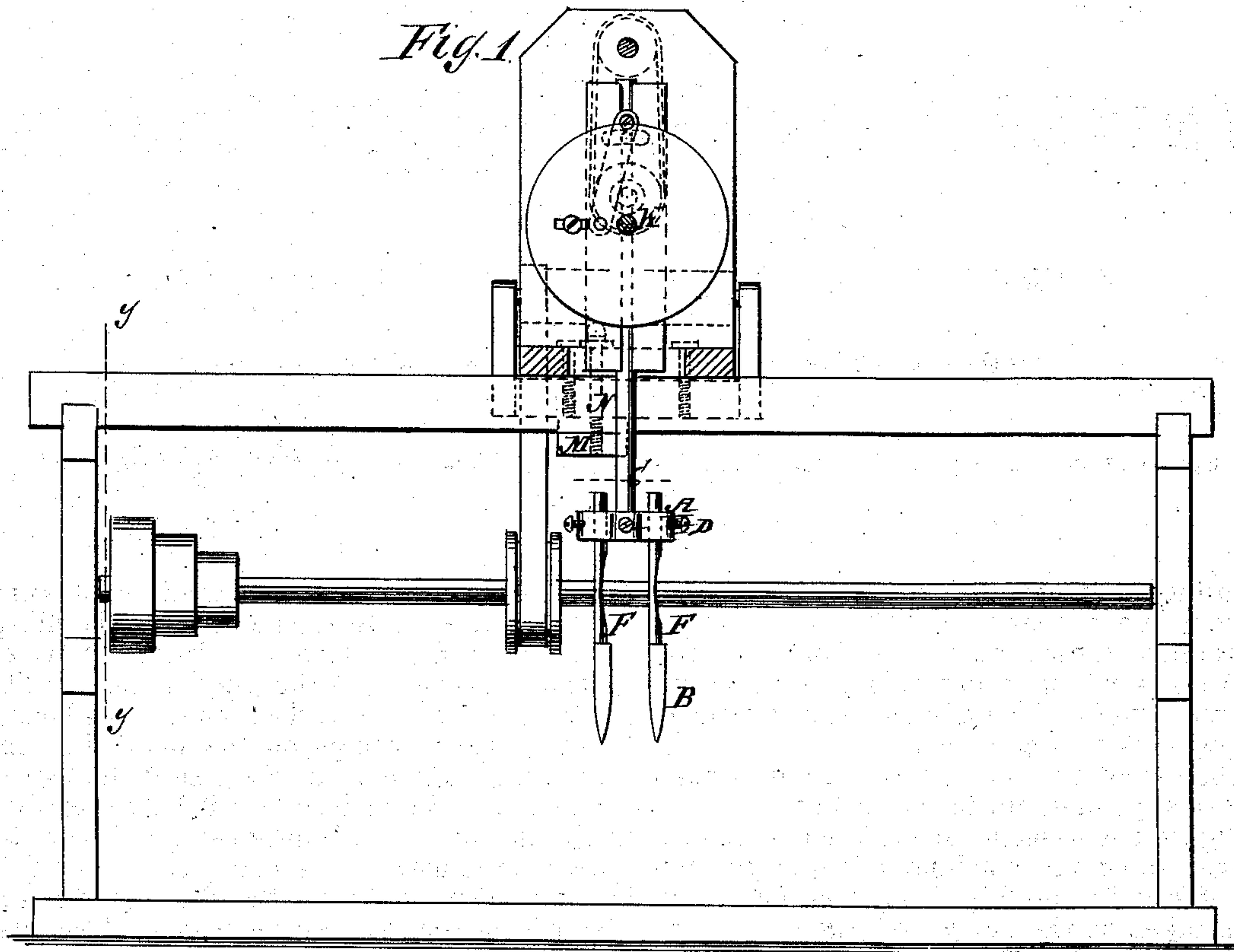


**W. J. JOHNSON.**  
**Gin-Saw Filing Machines.**

No. 155,655.

Patented Oct. 6, 1874.



**WITNESSES:**  
E. Wolff  
Sedgwick

**INVENTOR:**  
*W. J. Johnson*  
*Munnell & Co.*  
**ATTORNEYS.**

# UNITED STATES PATENT OFFICE.

WILEY J. JOHNSON, OF HERNANDO, MISSISSIPPI.

## IMPROVEMENT IN GIN-SAW-FILING MACHINES.

Specification forming part of Letters Patent No. **155,655**, dated October 6, 1874; application filed July 18, 1874.

*To all whom it may concern:*

Be it known that I, WILEY J. JOHNSON, of Hernando, in the county of De Soto and State of Mississippi, have invented a new and Improved Gin-Saw-Filing Machine, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claims.

Figure 1 is a sectional elevation of my improved saw-filing machine, taken on the line *x x* of Fig. 2; and Fig. 2 is a sectional elevation, taken on the line *y y* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the triangular head for attaching two files, B, to one stock, C. It is fitted on the stock so as to be shifted around it and held by a set-screw, D, and it has three holes, E, for files placed at unequal distances apart, thus affording means of holding files for filing two saws at once, the saws differing in their distances apart accordingly. The shifting head also allows of adjusting the files to saws of which the teeth are not in the same line. The shanks F of these files are made to spring, so that slight variations of distance apart between the saws and the files may be compensated by springing one of the stocks. They are also required to spring, in order to regulate the pressure on the saws; but this may

also be regulated, to some extent, by pressing the files against them when setting the filing-machine bed G along the frame H, which stands parallel with the gin-saw shaft. The stock C, which carries the file-head, works in a race, I, which swings on the pivot J in the axis of the crank-shaft K, to shift the files to the bevel of the teeth, and it is held fast when adjusted by the clamp-screw L. When adjusting the files in this manner, the bed G is shifted along to move the files against the teeth after the required inclination of the files is obtained. The bed G shifts along the frame H to shift the files to other saws, and it is fastened by the clamping-block M and screw N.

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

1. The triangular file-head, having three holes for files at unequal distances apart, and arranged to shift around on the stock, in the manner described.

2. The stock-race, pivoted centrally and in line with crank-shaft, as shown and described, so that it may be turned to any angle.

W. J. JOHNSON.

Witnesses:

JOHN W. WOODS,  
CHAS. H. ROBERTSON.