

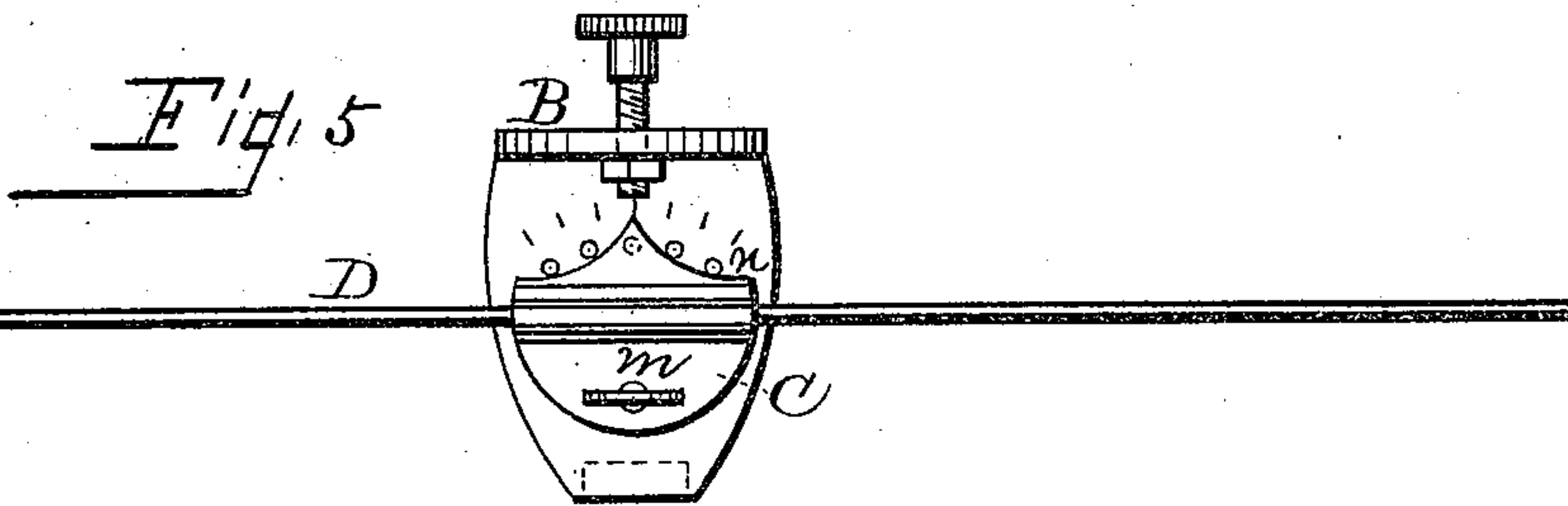
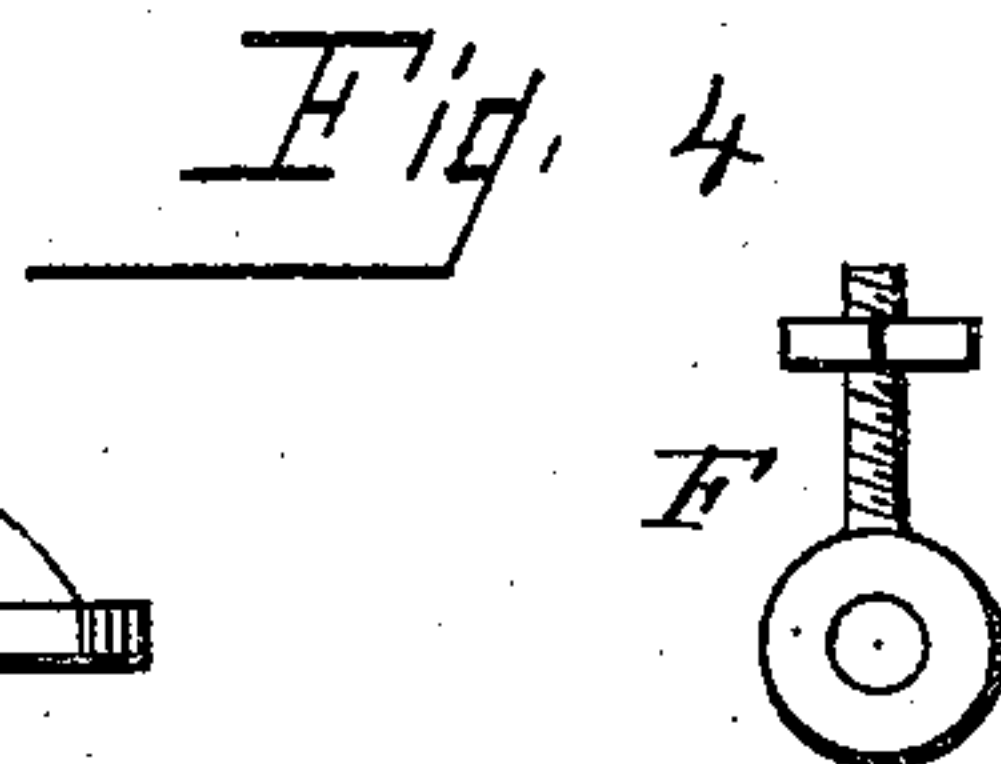
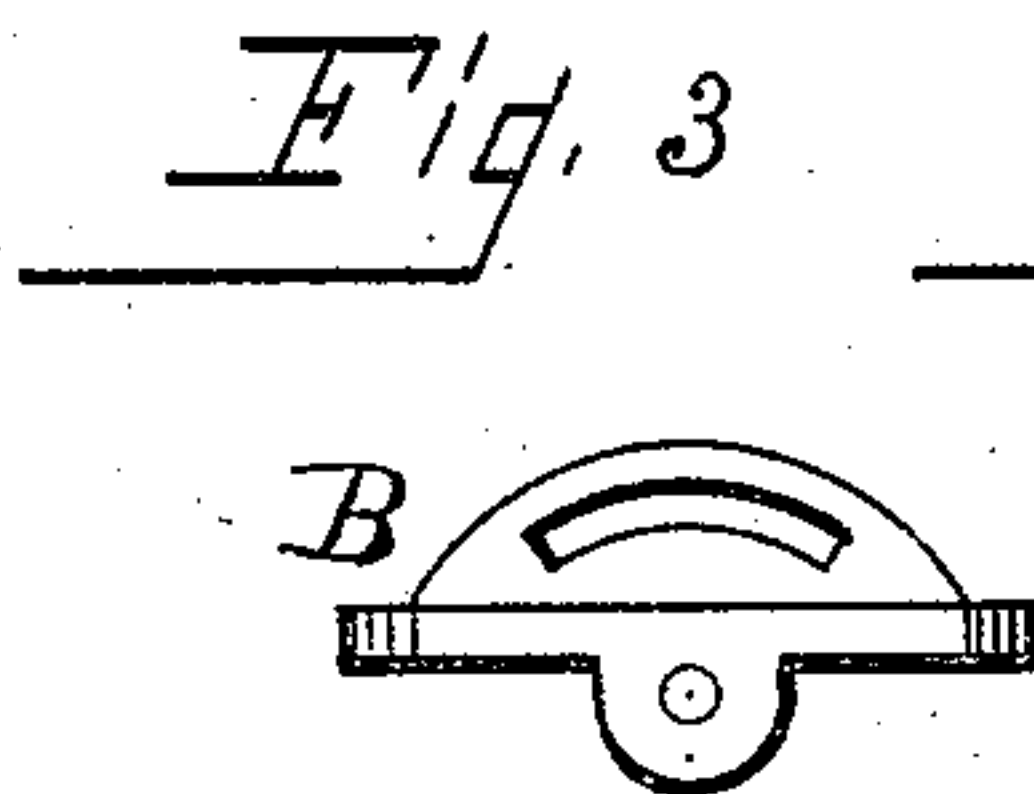
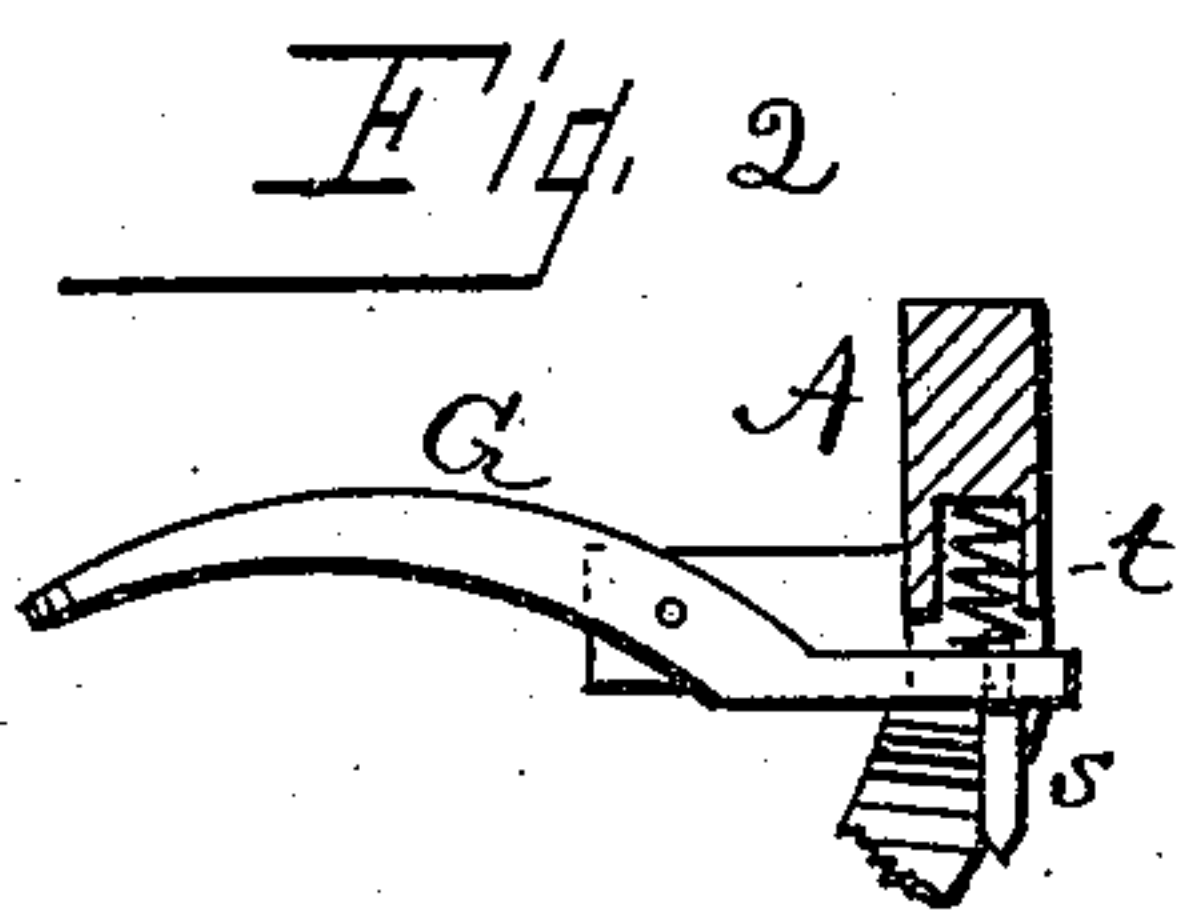
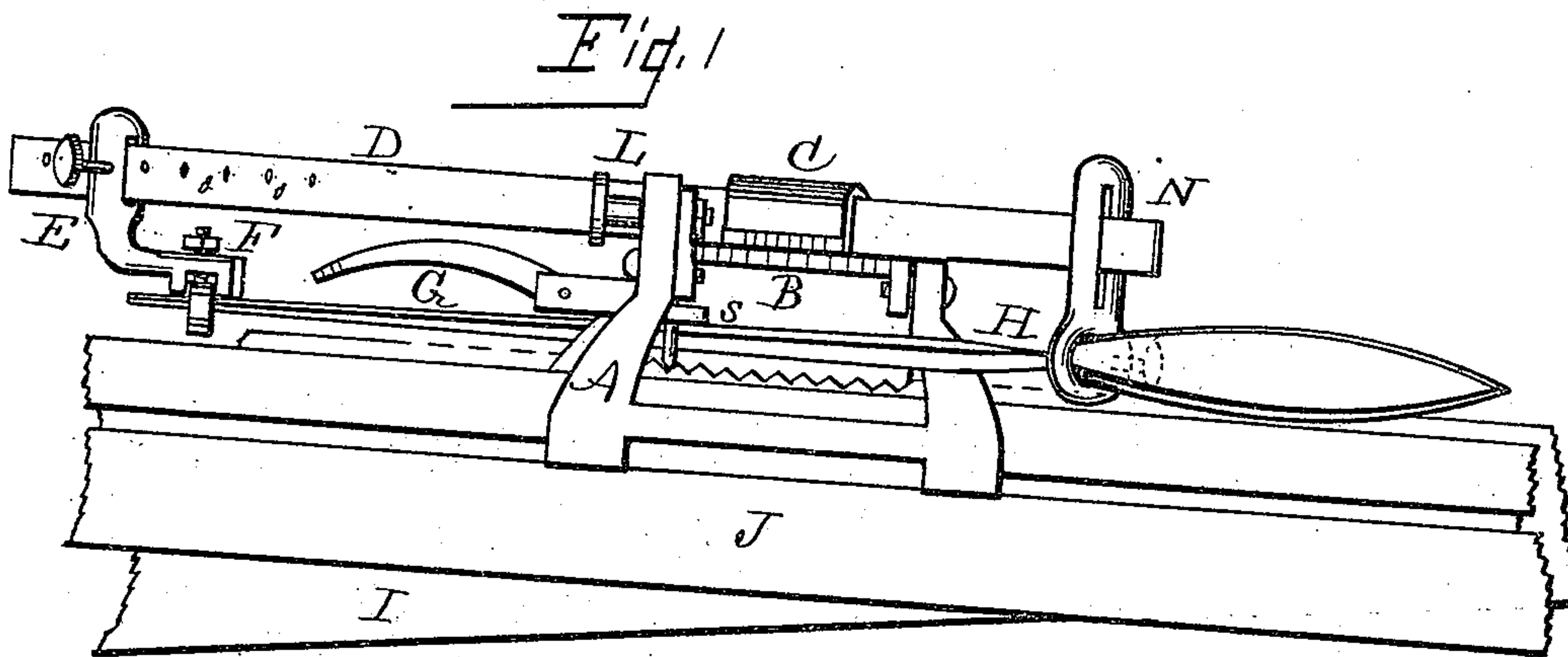
(No Model.)

J. SCHAEFFER.

SAW FILE GUIDE.

No. 356,082.

Patented Jan. 11, 1887.



Witnesses

Louis S. Reibold.  
Leopold Liebold

Inventor

Jacob Schaeffer  
By An Attorney, B. Pickering

# UNITED STATES PATENT OFFICE.

JACOB SCHAEFFER, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF TO  
ARTHUR GIESLER, OF SAME PLACE.

## SAW-FILE GUIDE.

SPECIFICATION forming part of Letters Patent No. 356,082, dated January 11, 1887.

Application filed July 3, 1886. Serial No. 207,153. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB SCHAEFFER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a certain new and useful Improvement in Saw-File Guides; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains 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.

My invention relates to improvements in saw-file guides; and it consists of a metallic frame supported in a grooved wooden clamp, said frame having an adjustable guide pivoted to it, and which serves to give direction to the file and arrest the cut thereof, so that the teeth of the saw shall be even on their cutting-points. The mechanism is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective of the saw-file guide as attached in operation. Fig. 2 is a fragmentary section of the frame, showing the engaging-lever and point. Fig. 3 is a front view of the adjusting-plate. Fig. 4 is a side view of the eye-screw. Fig. 5 is a top view of the adjusting-plate and the pivotal guide held thereon.

Like letters refer to like parts throughout the several views.

A is a cast-iron frame. The sides are symmetrical, and at the inner ends are lugs which enter the grooves of the wooden clamp J. The plate B is pivoted on screws in the ends of the frame, thereby admitting of horizontal adjustment. The screw L enters an orifice in the frame, passes through a segmental slot in the plate, and is fastened by a nut. The use of this screw is to bind the adjusting-plate at any desirable point. On the adjusting-plate is pivoted the guide C, the thumb-screw *m* forming the pivot. A series of concentric holes are drilled in the adjusting-plate, and a dowel-pin of the guide-plate enters one of the series, as the same is adjusted to give

the proper angle to the file. A series of indices may be used, as shown by marks on the adjusting-plate, the pivotal guides having a point suitable for the purpose.

The guide-bar C is embraced by the slot or channel of the pivotal guide-plate, and within which it freely moves. This bar has a series of holes, *o*, and the arm E is attached to said bar by a screw of the same, which enters said holes. In the forward end of this arm is a notch, and within which is held the eye-screw F. Within an orifice of this screw is placed the end of the file, and it is made fast by the turning of the nut.

The handle of file H is held by a screw in an eye of the slotted arm N. The slot embraces the guide-bar, and permits the same to move vertically until said bar reaches the bottom of the slot, when the filing ceases.

To the frame is pivoted the setting-lever G, in the end of which is loosely fitted the point *s*, which enters the space between the points of the saw-teeth. Within the frame, and bearing on the end of the lever, is a spiral spring, *t*, which serves to hold the point firmly within the saw and bind the lugs of the frame against the upper surfaces of the clamp-grooves, thus holding the frame firmly in position during the process of filing.

I is part of a saw-blade, which should be carefully adjusted within the clamp and made fast by screws at the ends. If the adjustment is proper, when the tooth is properly sharpened, the guide-bar has reached the bottom of the slot in the arm N, and thus adjusted the points of the teeth. When the filing is completed, the points of the teeth are in line.

The saw-guide is carried from tooth to tooth by raising the lever and moving the frame.

The use of the holes in the end of the guide-bar is to adapt the same to different lengths of files.

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

1. The frame A, with lugs to engage a grooved clamp, adjustable plate B, with binding-screw L, guide-plate C, bar D, holder-arm



E, with eyebolt F, slotted arm N, and setting-lever G, with point *s*, and spiral spring, in combination substantially as set forth.

2. In a saw-file guide, the setting-lever G,  
5 with point *s* to engage the saw, and spiral spring *t*, in combination with a frame, substantially as set forth.

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

JACOB SCHAEFFER.

Witnesses:

B. PICKERING,  
SUMNER T. SMITH.