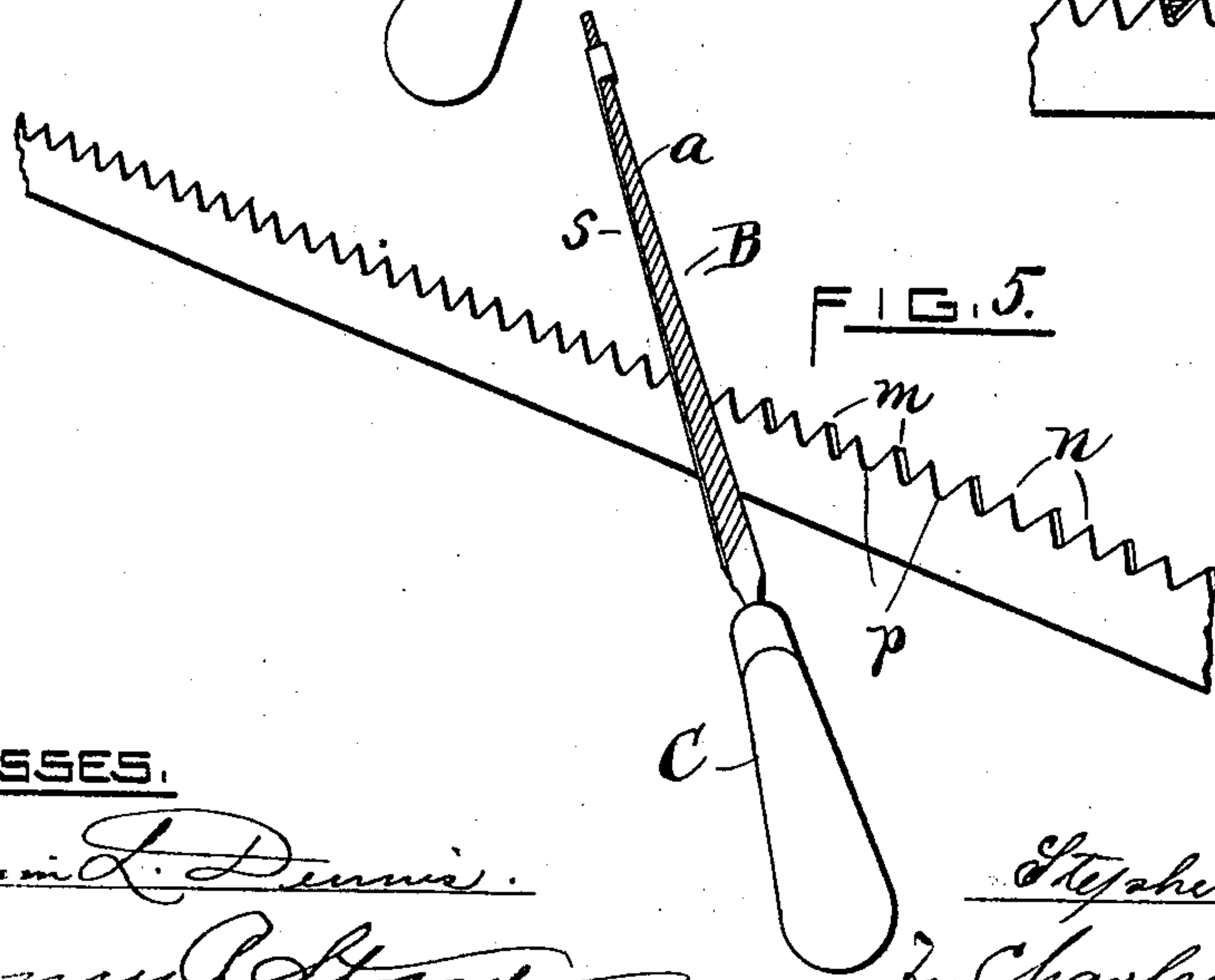
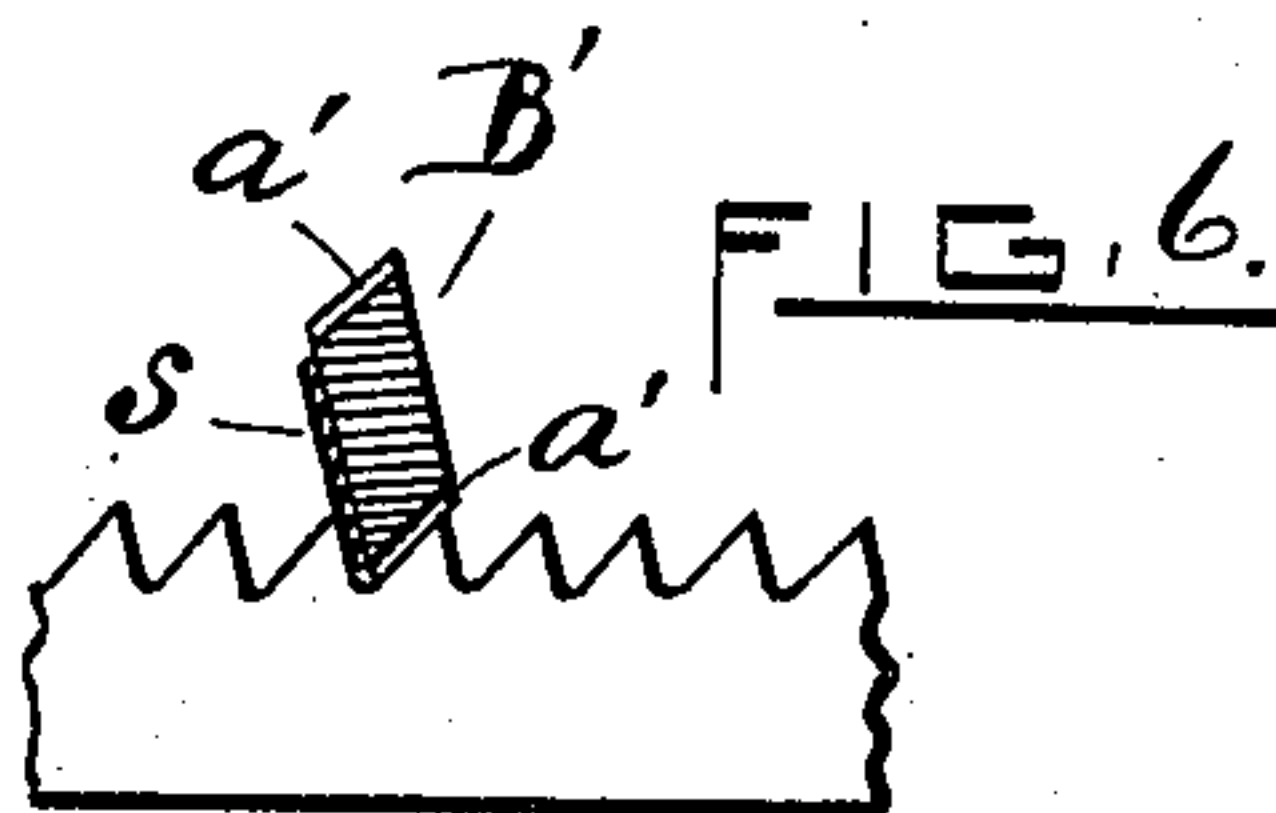
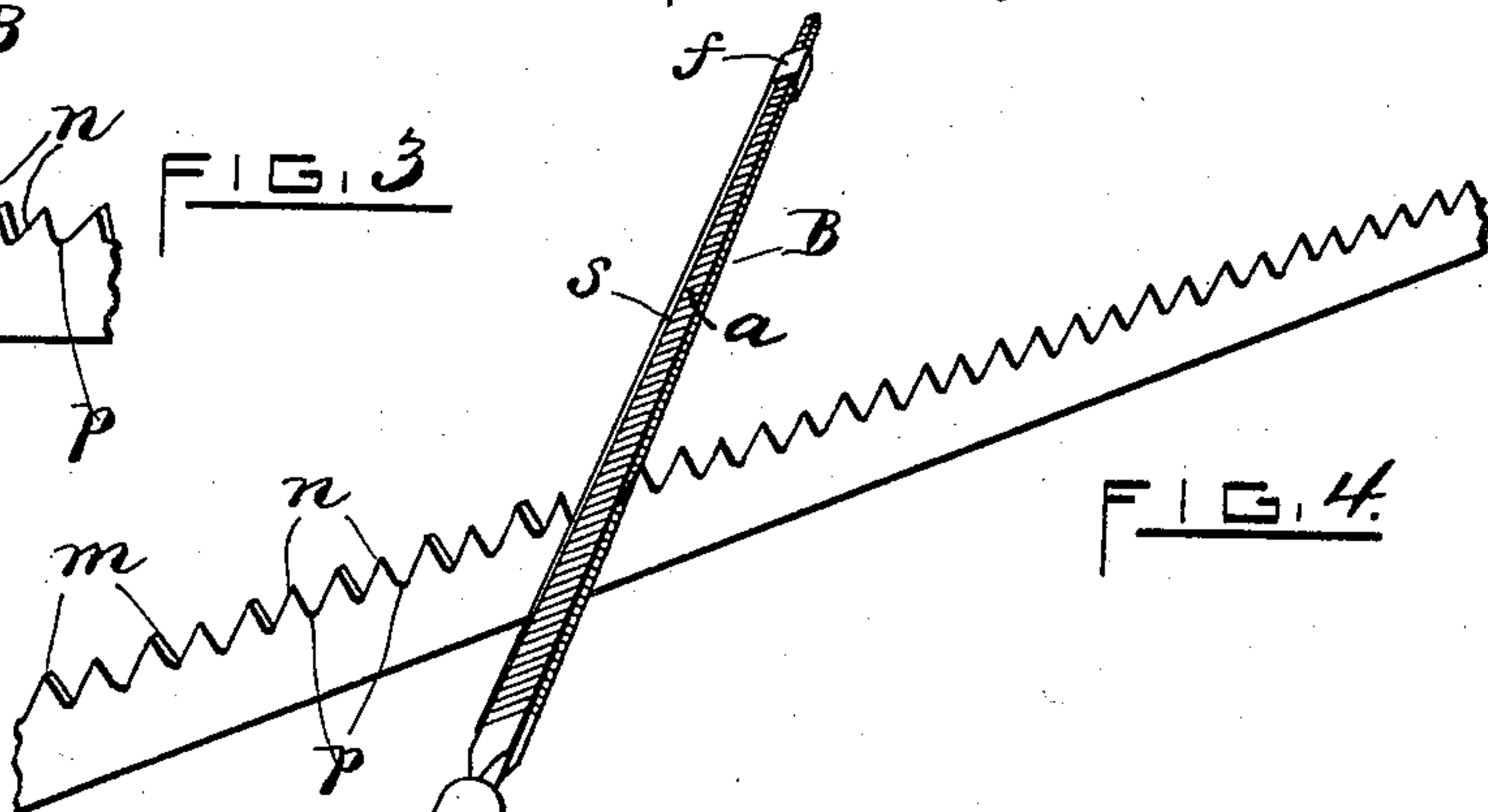
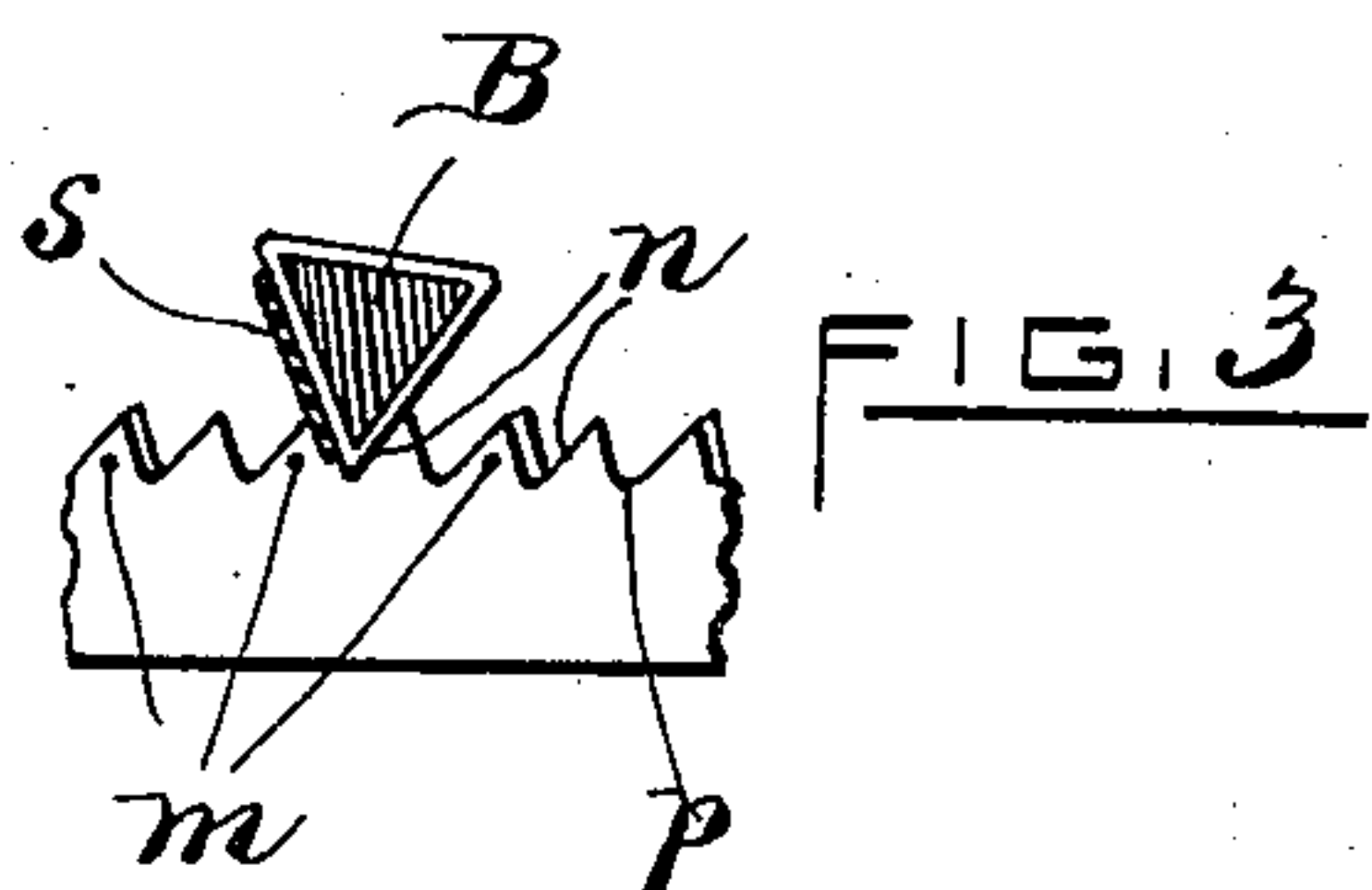
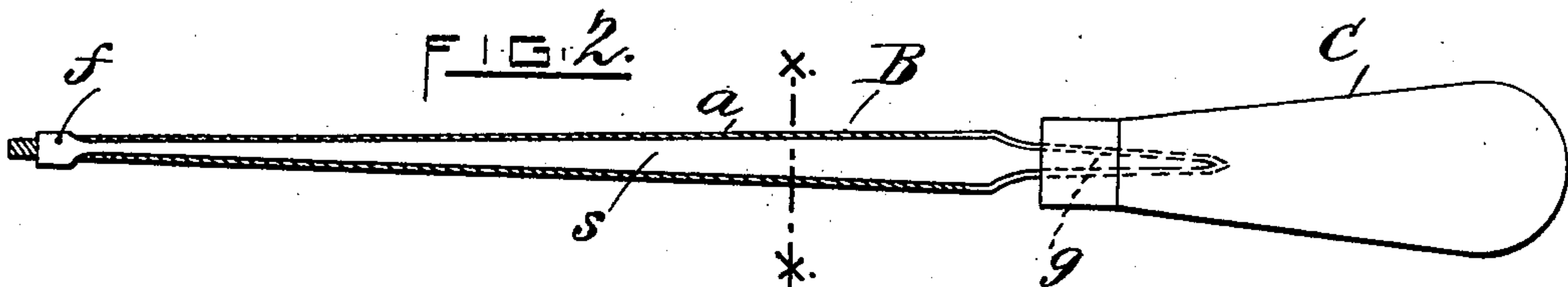
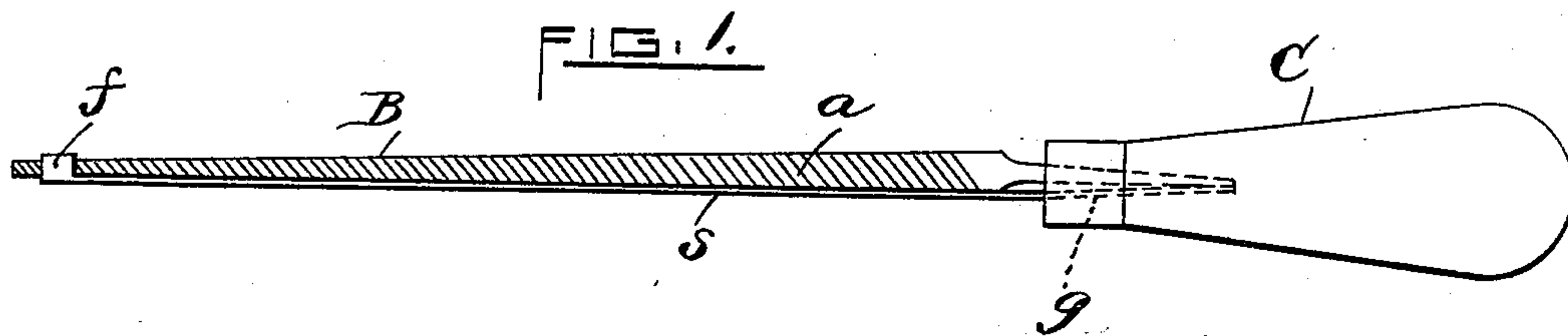


(No Model.)

S. LONERGAN.  
FILE GUARD.

No. 552,294.

Patented Dec. 31, 1895.



WITNESSES.

*Benjamin L. Dennis.*  
*Henry A. Starnes*

INVENTOR

*Stephen Lonergan*  
by *Charles T. Hannigan*  
Atty.

# UNITED STATES PATENT OFFICE.

STEPHEN LONERGAN, OF CENTRAL FALLS, RHODE ISLAND.

## FILE-GUARD.

SPECIFICATION forming part of Letters Patent No. 552,294, dated December 31, 1895.

Application filed October 25, 1895. Serial No. 566,890. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN LONERGAN, a citizen of the United States, residing at Central Falls, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in File-Guards; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is an improved file-guard adapted to be used on files in the sharpening of saw-teeth; and it consists of a thin sheet of steel or other suitable metal, one end of which is shaped to slip over the outer point of a file, triangular in cross-section, the other end made pointed, as with the file, and they both made fast in the handle in the ordinary way.

Figure 1 represents a top view of my improved file-guard as attached to a file and handle. Fig. 2 is a side elevation of the same. Fig. 3 is an enlarged cross-sectional view taken on line  $x x$  of Fig. 2 with a portion of the saw-blade in elevation. Figs. 4 and 5 are perspective views of my improved file-guard as seen in operative position upon a saw to sharpen the teeth thereof, the saw being illustrated in partial elevation. Fig. 6 is a modification view which shows another form of file in cross-section, with file-guard attached thereto.

In the drawings, A represents my improved file-guard, the sides or faces  $s$  being entirely smooth between the end  $f$  and the point  $g$ .

The end  $f$  is formed to fit over the outer point of the file B, and the opposite end  $g$  is pointed to enter the handle C, the whole constructed so that the inner side  $s$  of the guard lies close up to the cross-cut teeth of the file, said sides  $s$  being shorter in depth than the side of the file B. (See Fig. 2.)

In referring to Figs. 4 and 5, which show the operation of the file and file-guard on the teeth of a saw-blade, and in a position, as an acute angle thereto, the teeth  $n$ , which were not filed before, are now brought to a proper bevel and edge by the cross-cut side  $a$  of the file, while the smooth side  $s$  of the file-guard, having no power to cut, cannot injure or dull the already sharpened edge of the alternate teeth  $m$ , but leaves said edge sharp.

When the cross-cut side of a file wears dull the file-guard can be very readily detached from the file and replaced over the old cut side.

The side  $s$  of the guard is made less in depth than the cross-cut side of the file to allow said file to round out the bottom  $p$  of the saw-teeth.

I claim as a novel and useful invention and desire to secure by Letters Patent—

The improved file-guard for attaching to files used for sharpening saws herein described, said file-guard being made of thin sheet metal having one end formed to fit over the outer point of a file, the opposite end pointed to enter with the point of the file in the handle, substantially as shown.

STEPHEN LONERGAN.

Witnesses:

BENJAMIN L. DENNIS,  
HENRY P. STONE.