

(No Model.)

A. J. LINNEY.
ADJUSTABLE MITER CLAMP.

No. 370,485.

Patented Sept. 27, 1887.

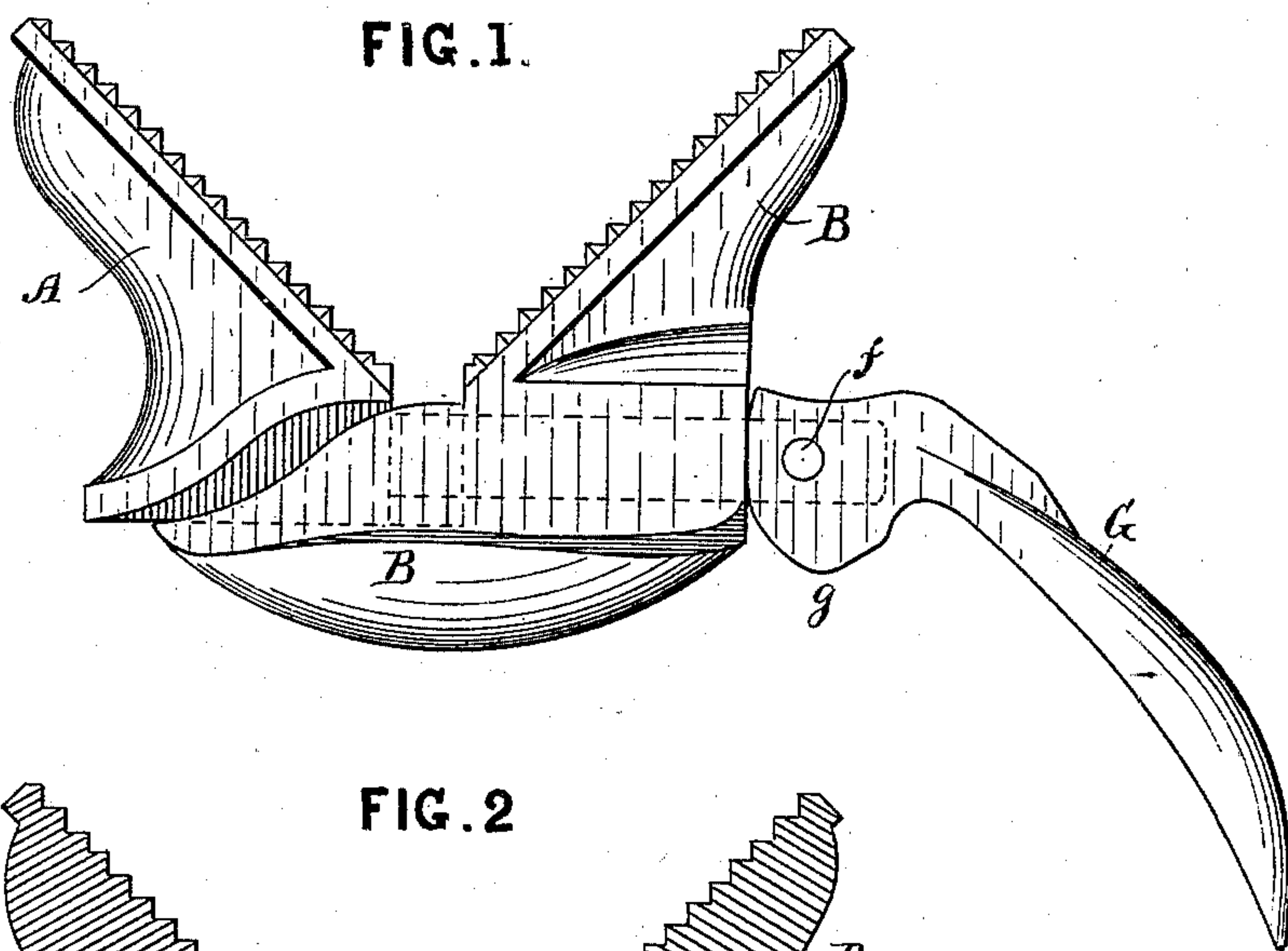
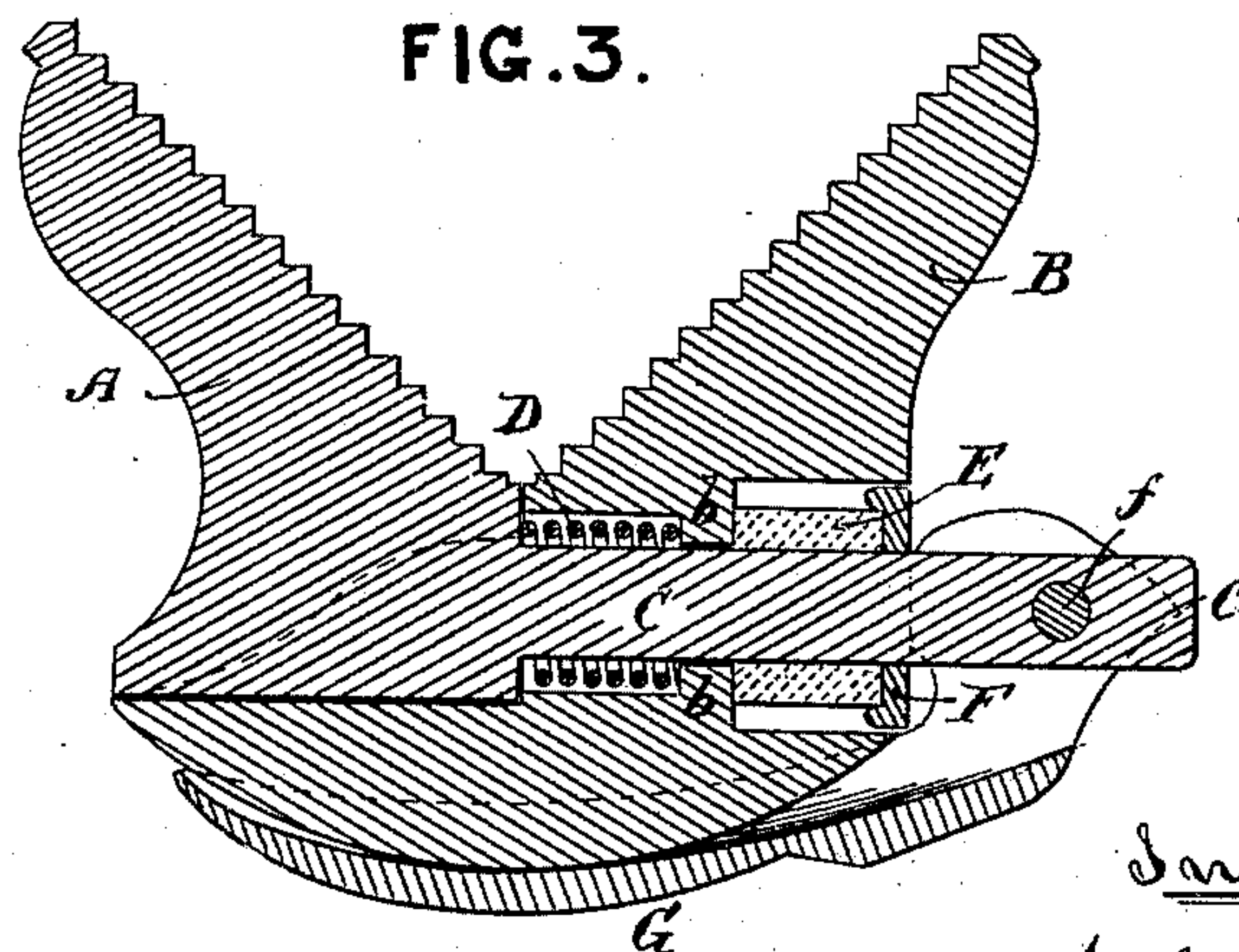
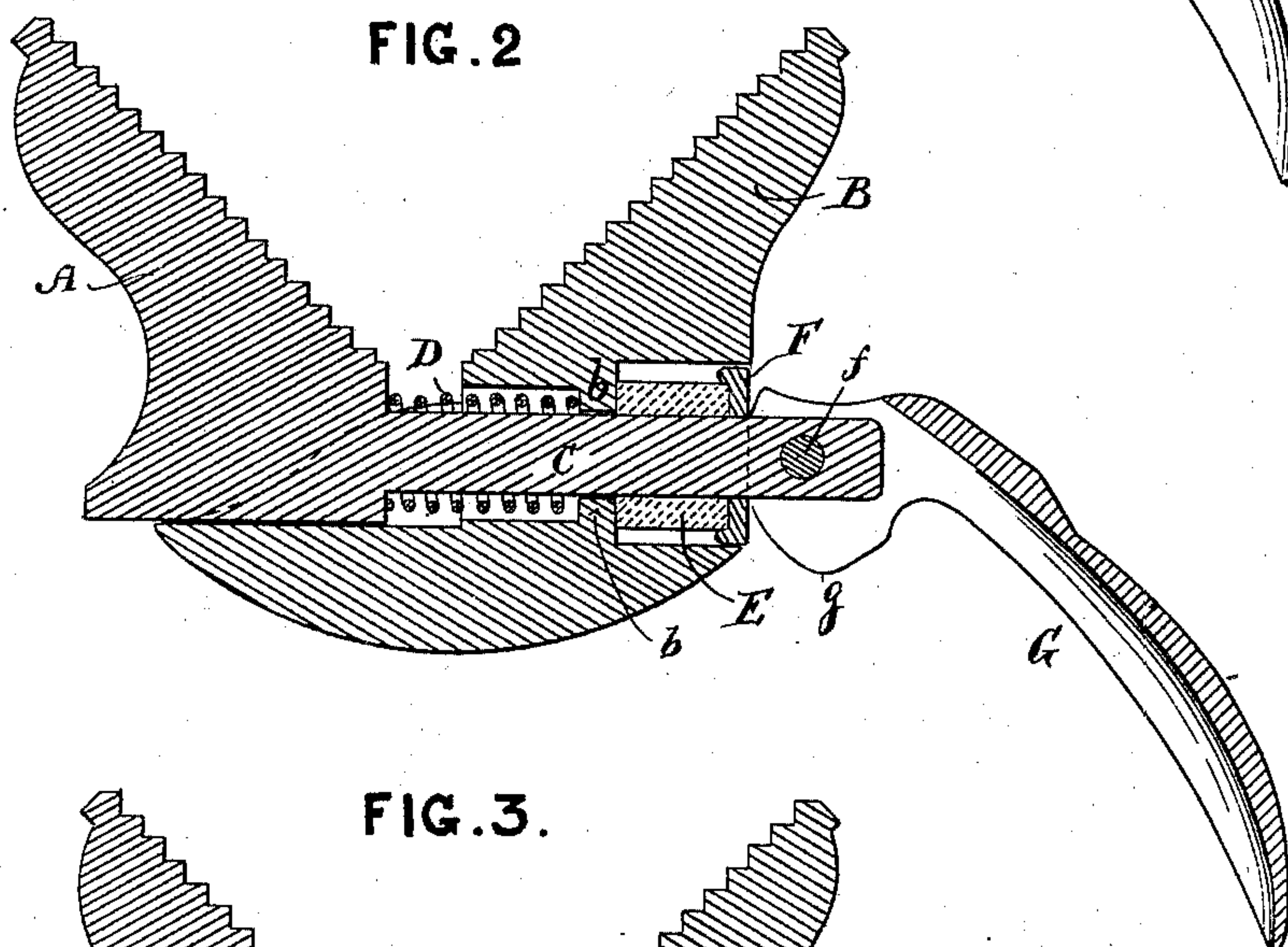
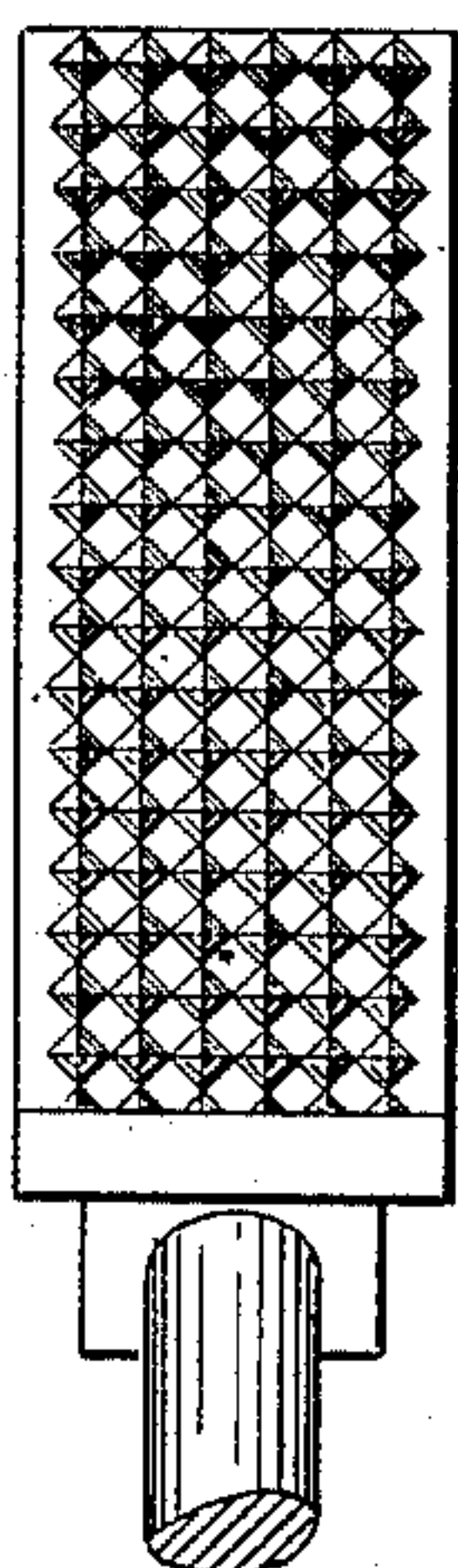


FIG. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE MITER-CLAMP.

SPECIFICATION forming part of Letters Patent No. 370,485, dated September 27, 1887.

Application filed September 13, 1886. Serial No. 213,933. (No model.)

To all whom it may concern:

Be it known that I, ALBERT J. LINNEY, a citizen of the United States, residing at Cambridgeport, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Adjustable Miter-Clamps, of which the following is a specification.

The object of my invention is to produce an adjustable clamp for holding together the miter-joints of frames, moldings, &c., in the process of securing them together.

The invention consists of two jaws having serrated faces and set at an angle of ninety degrees with each other, one of the jaws having a spindle or bolt passing through the other jaw, the said bolt being provided with a coiled spring fitted in a recess in the sliding jaw. On the end of the bolt which projects from the sliding jaw is pivoted a lever having a cam-shaped inner end, which bears against a washer on a rubber or other spring within the sliding jaw, so that when the lever is raised or opened out the coiled spring on the bolt will cause the jaws to spread apart to receive the mitered joint. The lever is then drawn down, so that the cam-shaped edge will force the sliding jaw toward the opposite jaw, and thus firmly clamp the mitered joints together.

Referring to the accompanying drawings, Figure 1 is a side view of my invention, showing the jaws set apart. Fig. 2 is a vertical longitudinal section of Fig. 1. Fig. 3 shows the invention in section, with the jaws drawn together and the lever in position to hold the same in position. Fig. 4 represents the face of the jaws.

A is a stationary jaw, and B a sliding one. To the lower part of the jaw A, and forming a part of the same, is a spindle or bolt, C, which passes through the jaw B.

Surrounding a portion of the bolt C is a coiled spring, D, bearing at one end against the lower part of the jaw A, and at the other end against a projection or shoulder, *b*, in jaw B, which is nearly in contact with the bolt C, the said spring fitting within a recess in the jaw B.

On the bolt or spindle C is also fitted a hollow block of india-rubber or other suitable elastic material, E, which bears against a shoulder formed by the projecting rim *b*. Instead of rubber, a coiled spring may be used.

On the outer side of the rubber block E and on the bolt C is fitted a metal disk or washer,

F, having a rim on its inner side, forming a recess in which the rubber block E is fitted.

At the outer end of the bolt C is pivoted a lever, G, the inner face of which is curved and bears against the washer F, and is formed with a cam at *g*, as shown in Figs. 1 and 2, so that when the lever is turned to the position shown in Fig. 3 the jaws A and B will be drawn together to clamp the article or corners of a frame placed between the jaws.

The faces of the jaws are to be serrated or formed with points, as shown in Fig. 4, so as to hold the article firmly between the jaws when clamped. When the clamp is not in use, the lever G is in the position shown in Figs. 1 and 2, the coiled spring D causing the jaws to open or spread apart. When the two parts of a frame are to be clamped, the mitered ends of the frame are placed between the jaws A and B. The lever G is then turned down and under the lower portion of jaw B, thus forcing the jaw A toward the other jaw, B, thereby clamping the two parts of the frame firmly together.

Should the mitered ends of the frame be placed between the jaws A and B and be caught by the projections on the face of the same, so that the jaws could not be brought close together, as shown in Fig. 3, then the spring E will yield and allow the lever G to be pressed under the clamp without tearing the sides of the frame to be clamped. When desired to release the frame, the lever G is thrown back and the spring D will force the jaws A and B apart.

What I claim as my invention is—

1. The combination of the jaw A, provided with the bolt C, the coiled spring D, surrounding bolt C, the jaw B, provided with the rubber block E, and the cam-faced lever G, as and for the purpose set forth.

2. The jaw B, provided with a recess in which is an elastic block, E, the projection or shoulder *b*, the washer F, and lever G, pivoted to the bolt C, in combination with the jaw A, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT J. LINNEY.

Witnesses:

E. PLANTA,
J. H. ADAMS.