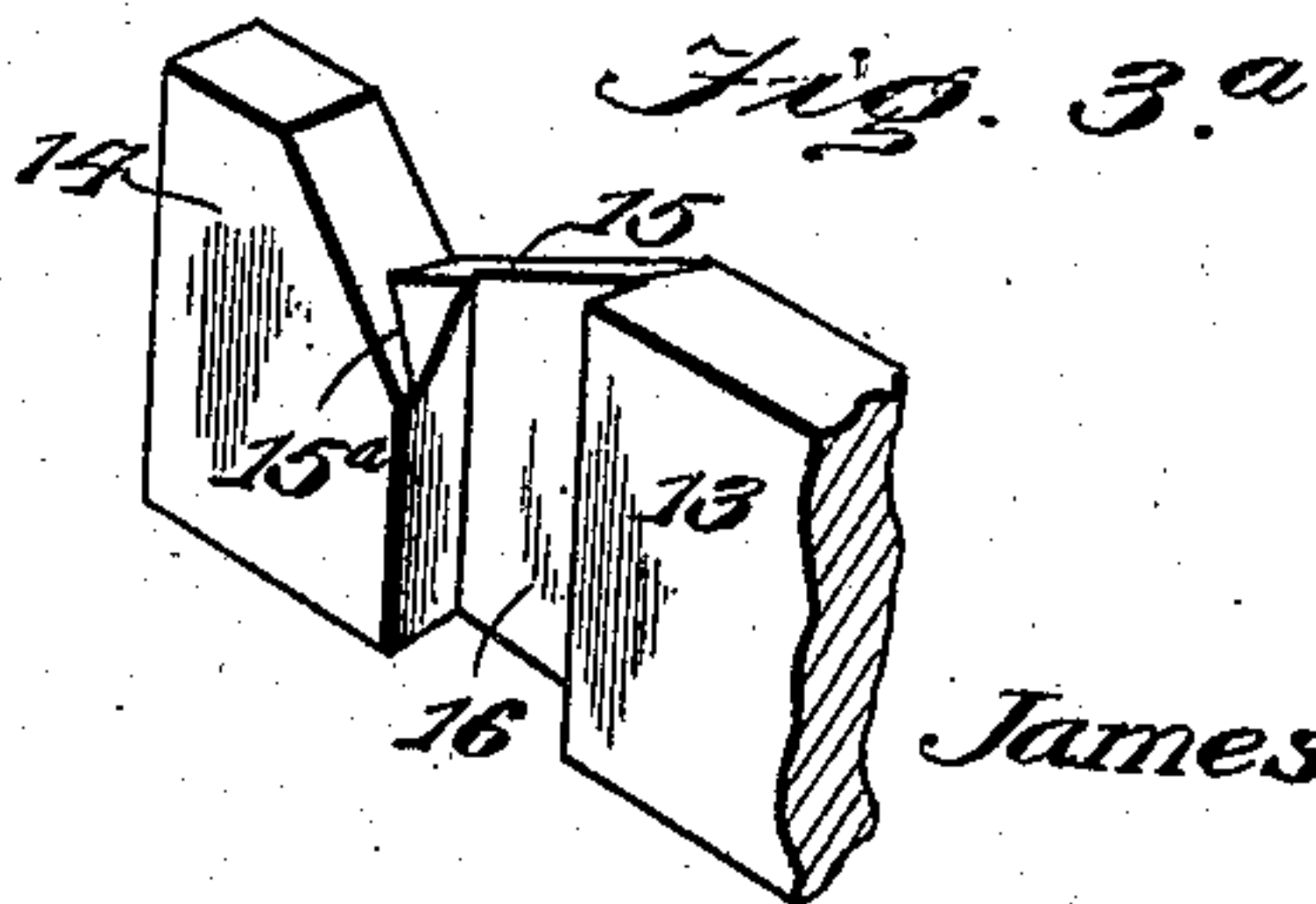
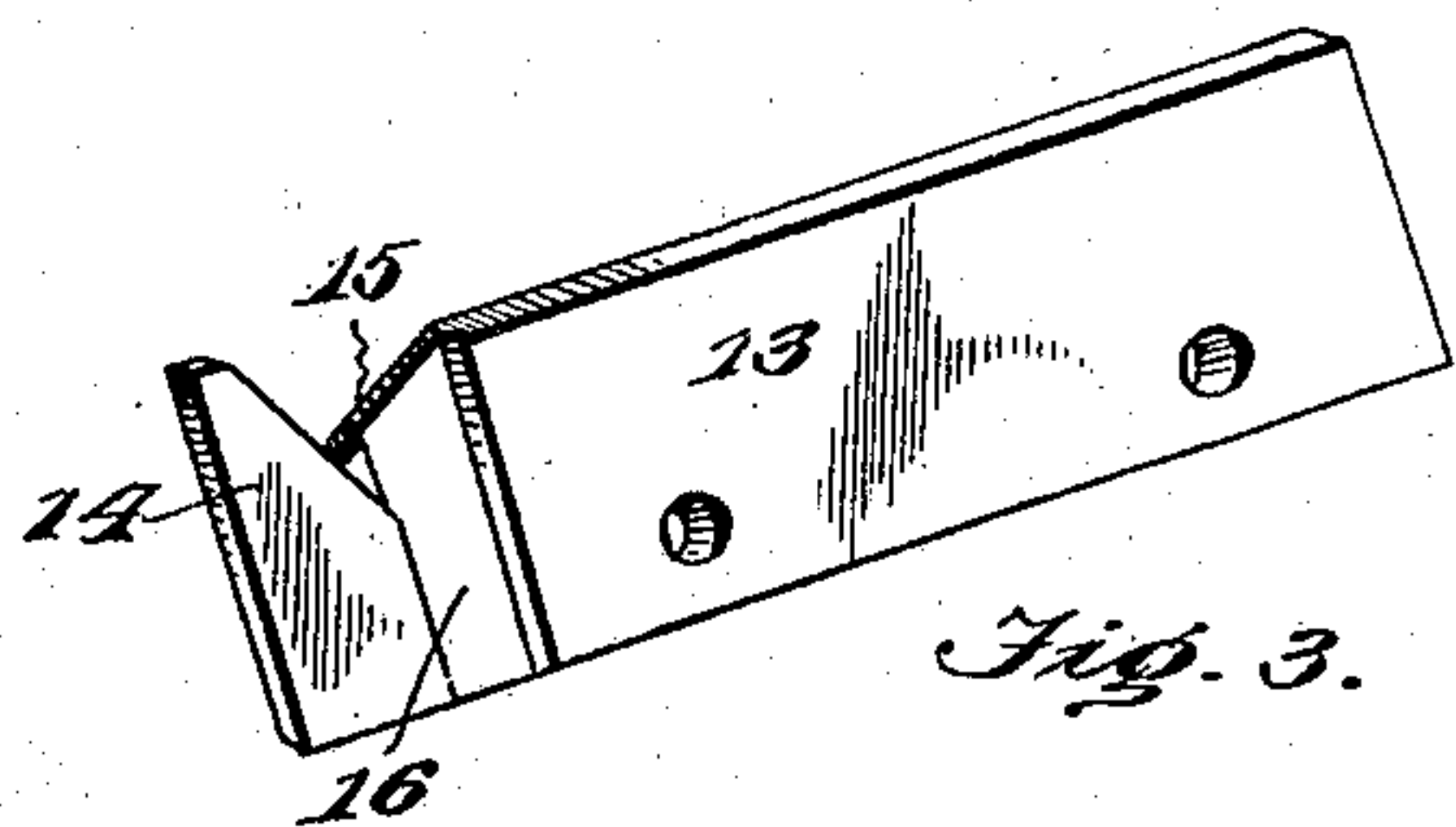
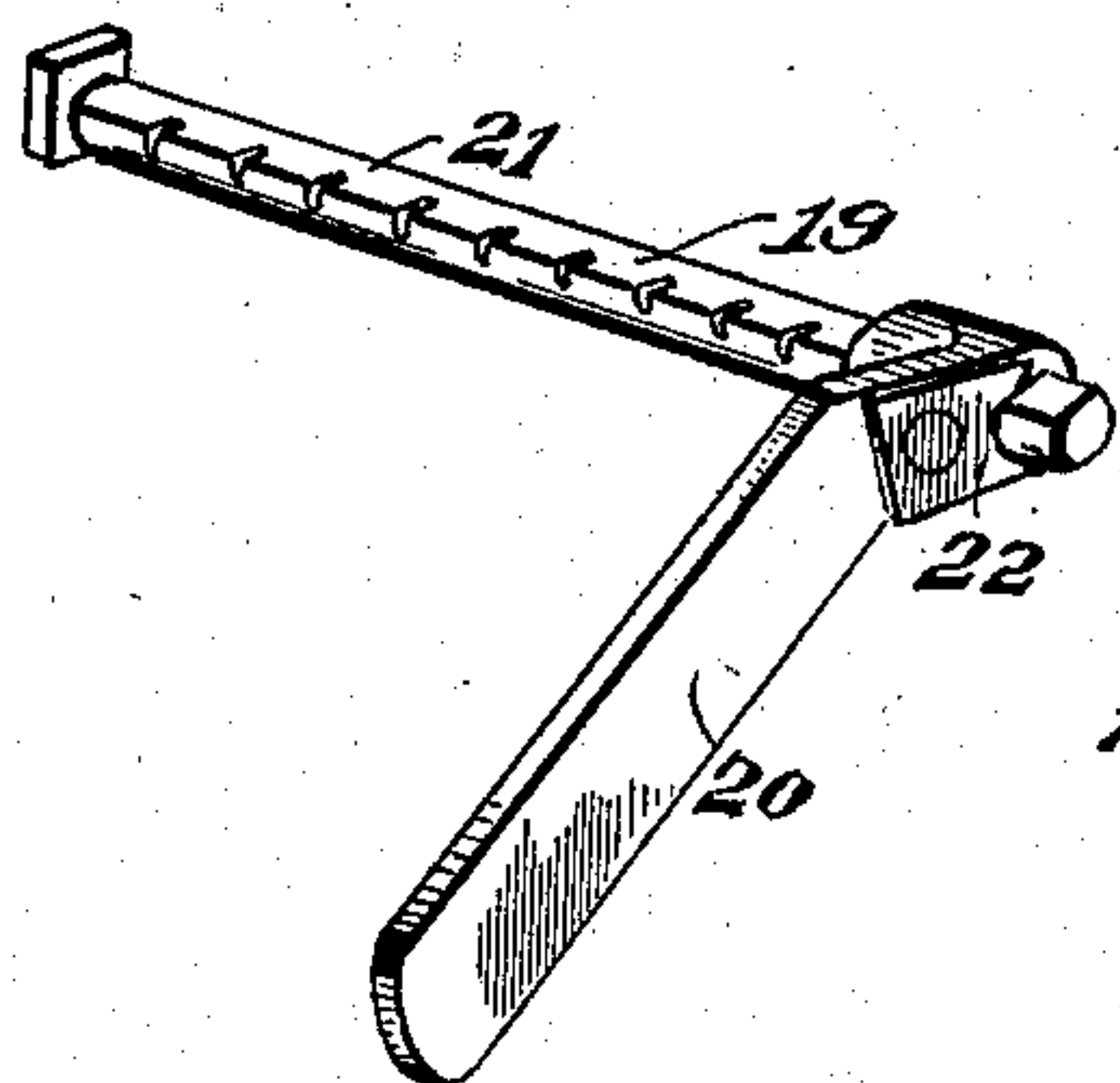
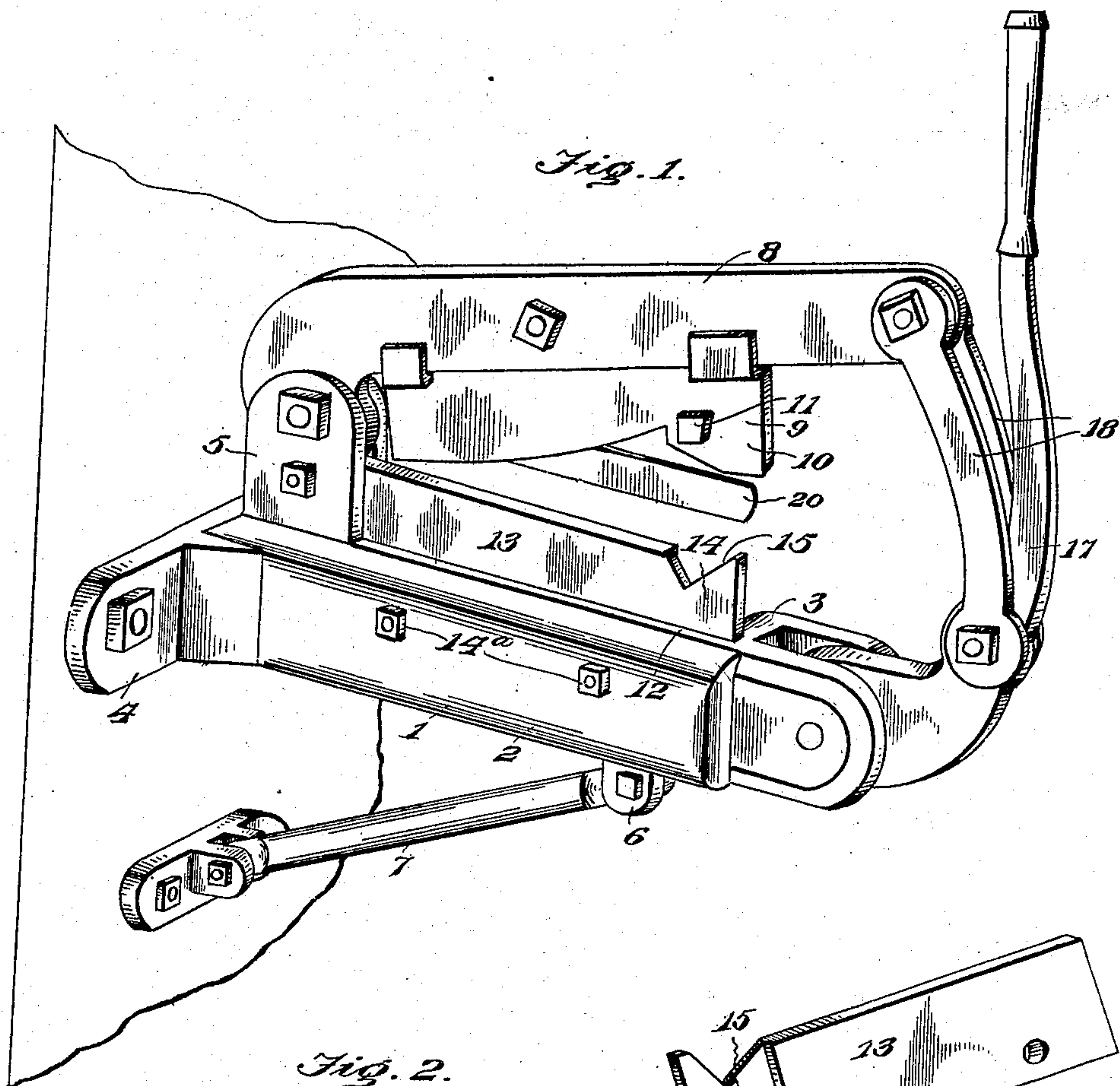


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J. C. SNIDER.
 APPARATUS FOR MAKING TOE CALKS.
 APPLICATION FILED NOV. 27, 1907.

Patented Feb. 9, 1909.
 2 SHEETS—SHEET 1.



Witnesses
James C. Snider
W. H. Woodson

Inventor
 James C. Snider.

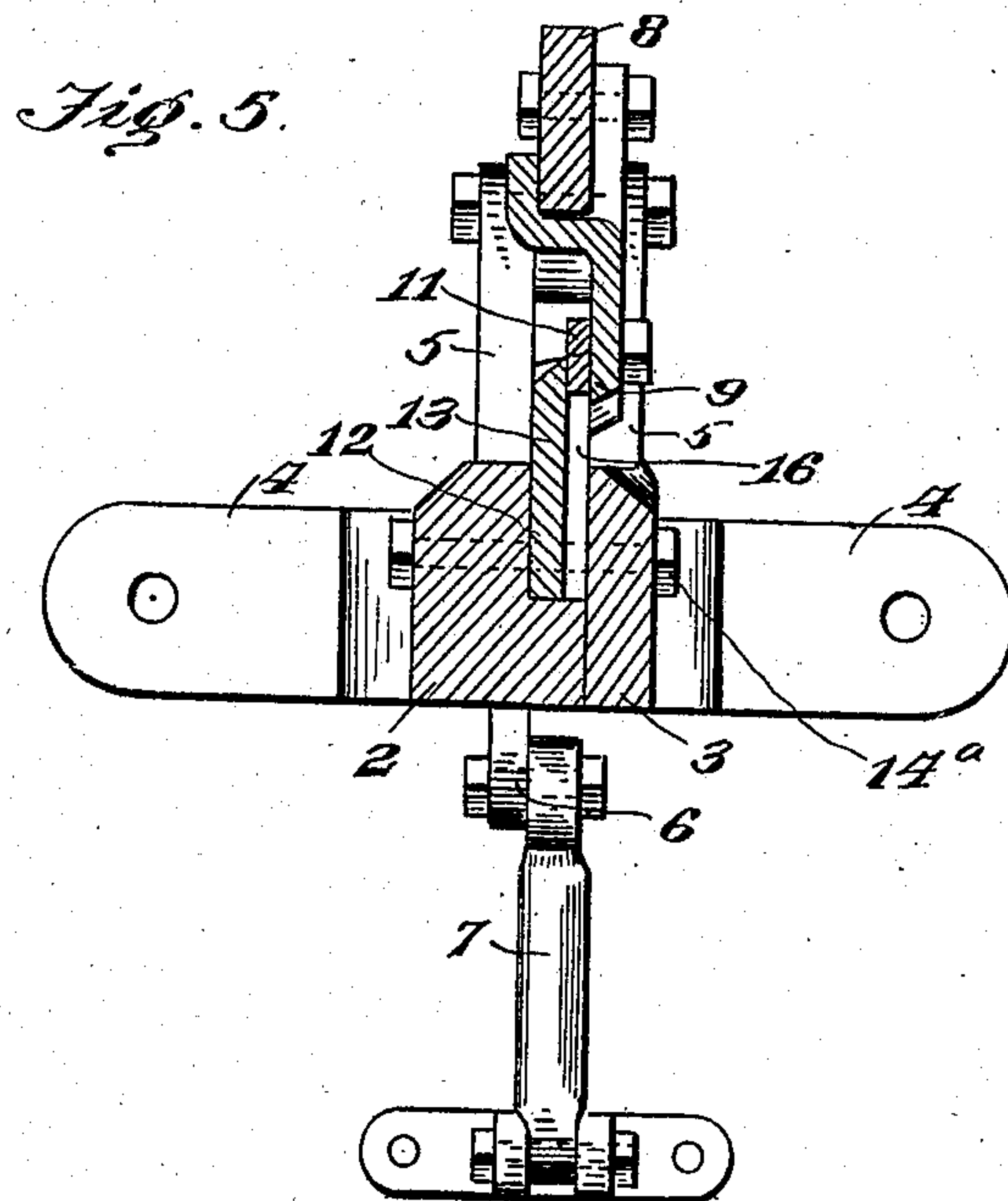
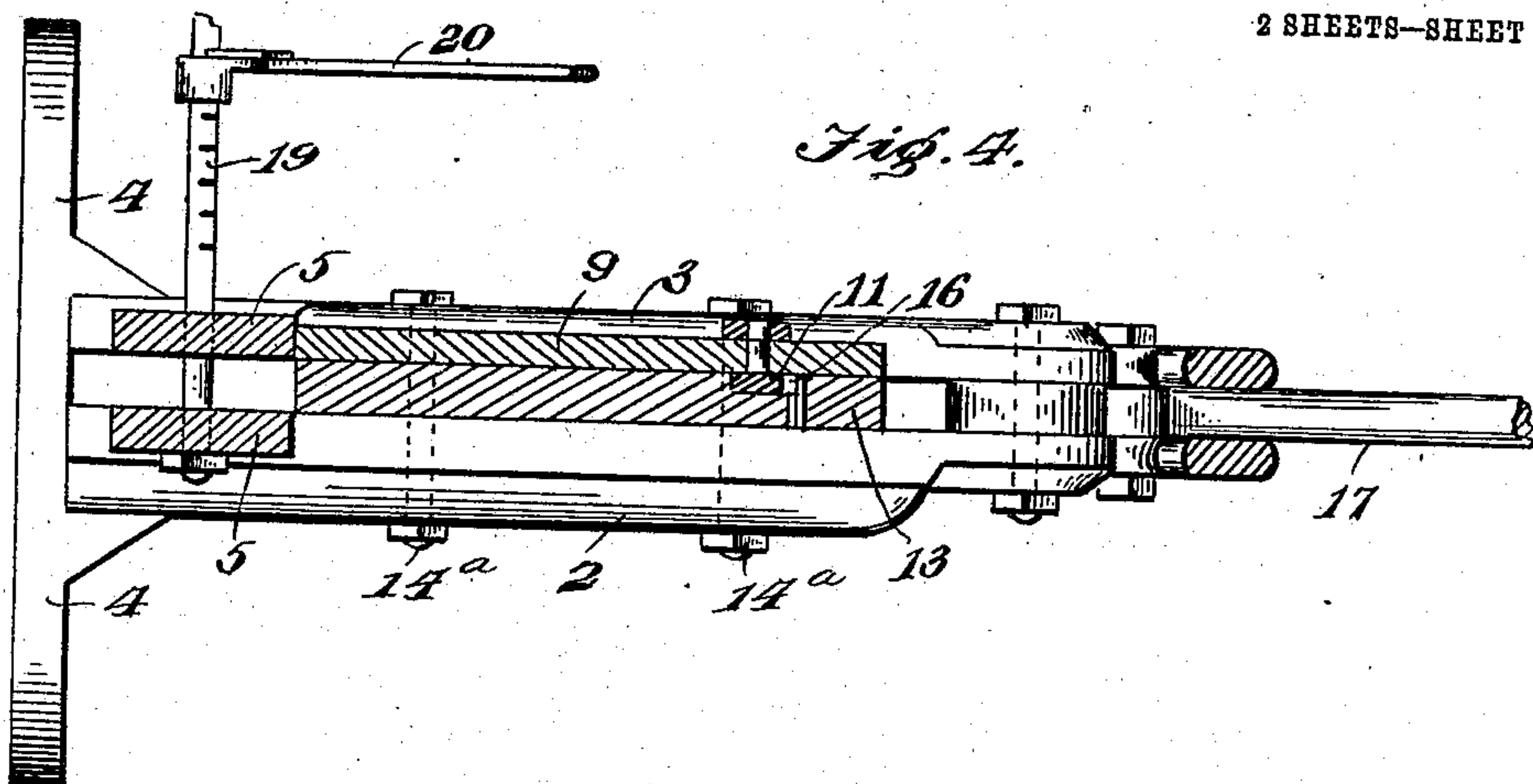
By *W. H. Racy*, Attorneys

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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES C. SNIDER, OF PLUMRUN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JAMES P. WALTZ, OF PLUMRUN, PENNSYLVANIA.

APPARATUS FOR MAKING TOE-CALKS.

No. 911,912.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed November 27, 1907. Serial No. 404,078.

To all whom it may concern:

Be it known that I, JAMES C. SNIDER, a citizen of the United States, residing at Plumrun, in the county of Fulton and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Making Toe-Calks, of which the following is a specification.

This invention has for its object a simple, durable and efficient construction of apparatus for use in making toe calks for horse-shoes, the apparatus being also designed as a handy tool for blacksmiths and metal workers generally as a shearing apparatus.

The invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a perspective view of my improved apparatus; Fig. 2 is a detail perspective view of the gage beam and gage; Figs. 3 and 3^a are similar views of a stationary blade and block; Fig. 4 is a horizontal sectional view of the apparatus; and, Fig. 5 is a transverse sectional view thereof.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings, the numeral 1 designates the supporting base of my improved apparatus for making horseshoe calks. Said base, may, if desired, be constructed of malleable iron and formed in two corresponding sections or members 2 and 3, each of which is provided at its rear end with an offset ear 4 and an upwardly extending cheek 5. The ears 4 are designed to receive bolts or similar fastening devices in order to secure the apparatus to a post or some other standard or support, so as to project horizontally therefrom. Preferably one of the said base members is formed with a depending lug 6 to which one end of the brace 7 may be secured, the other end of the brace being attached to the supporting post or standard. An arm 8 is pivotally mounted at its rear end between the upwardly projecting cheeks 5 of the base members 2 and 3, and a combined blade and plunger 9 is formed on or secured to said arm, as clearly illustrated in the drawing. The forward ex-

tremity of said blade is downwardly extended to form the plunger 10 which is provided at one side with a projection 11.

One of the members of the base 1 is formed on its inner face with a recess 12 which, with the opposing face of the other member, constitutes a chamber or socket for the reception of the stationary shearing blade 13 and die 14 secured in place preferably by bolts 14^a which extend therethrough and through both of the members 2 and 3 and which serve to hold said members together. The die 14 is formed in its upper edge with a V-shaped notch 15, and with a groove 16 in one face, and with a longitudinally and laterally tapering recess 15^a leading downwardly from one side wall of the notch to the groove, as shown. The notch 15 is designed to register with the plunger 10, and the groove 16 is designed to register with and receive the projection 11 of said plunger.

An operating hand lever 17 is fulcrumed at its lower end between the outer ends of the base members 2 and 3 and extends upwardly therefrom, and links 18 connect said lever above its fulcrum with the outer end of the arm 8. A gage beam 19 projects outwardly in a lateral direction from one of the base members and a gage 20 is provided at one end with a sleeve by which it is mounted to turn and slide on said beam. The beam, as noted, is formed with a flat face 21 and a series of kerfs extending transversely, and the gage 20 is formed with a tongue 22 designed to ride along the flat face 21, so that the gage may be slipped longitudinally on the beam in one direction or the other, said tongue taking into any one of the kerfs of the beam upon turning the gage forwardly into operative relation to the die. By this means, the gage may be held in the required position for the desired length of calk.

When my improved apparatus is used for forming toe calks for horseshoes, the iron from which the toe is to be made, is placed in the die, the hand lever is then lowered and the plunger 10 engages the end of the bar and pulls it downwardly into the groove 16 and recess 15^a to form the toe. The projection 11 follows and takes the corner off the toe, so as to form a sharp spike. It is, of course, understood that the metal is at white heat when the operation is being performed. The hand lever is then raised and

the bar withdrawn and placed between the shear blades that are formed by the beveled edges of the parts 9 and 13, so as to cut off the proper length to form the calk.

5 Having thus described the invention, what is claimed as new is:—

10 An apparatus of the character described, comprising a supporting base, a die mounted thereon and formed in its upper edge with an angular notch and in one face with a groove leading downwardly from the notch and with a tapered recess extending down-

wardly from the notch to the inner wall of the groove, a plunger mounted to move close to the grooved face of the die and formed in one face with a projection designed to pass downwardly into the groove, and means for operating said plunger. 15

In testimony whereof I affix my signature in presence of two witnesses.

JAMES C. SNIDER. [L. S.]

Witnesses:

C. S. JOHNSON,
E. R. WINK.