

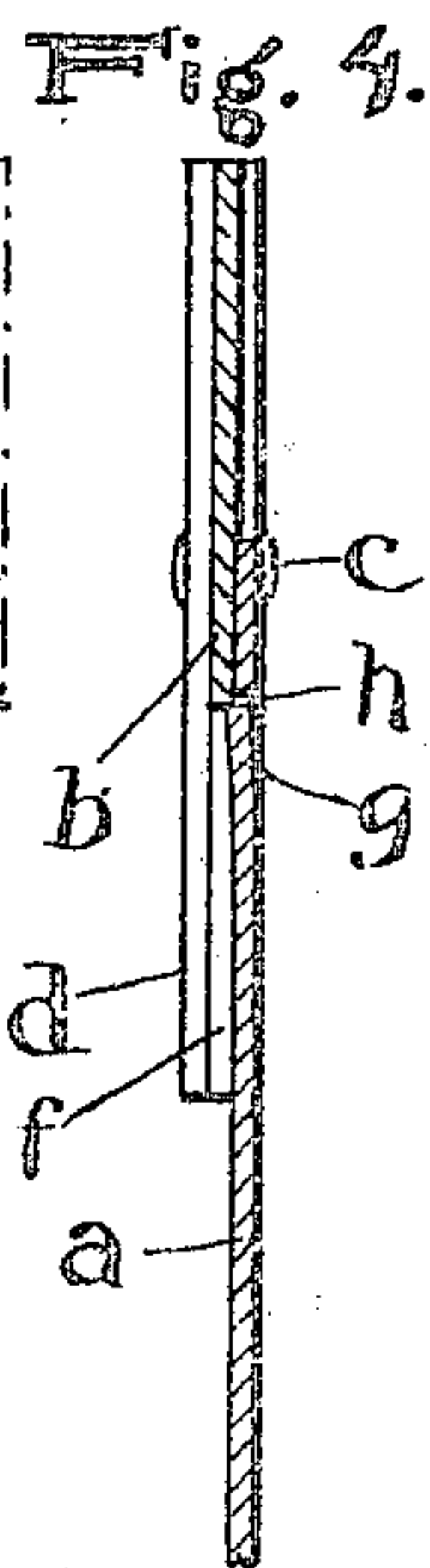
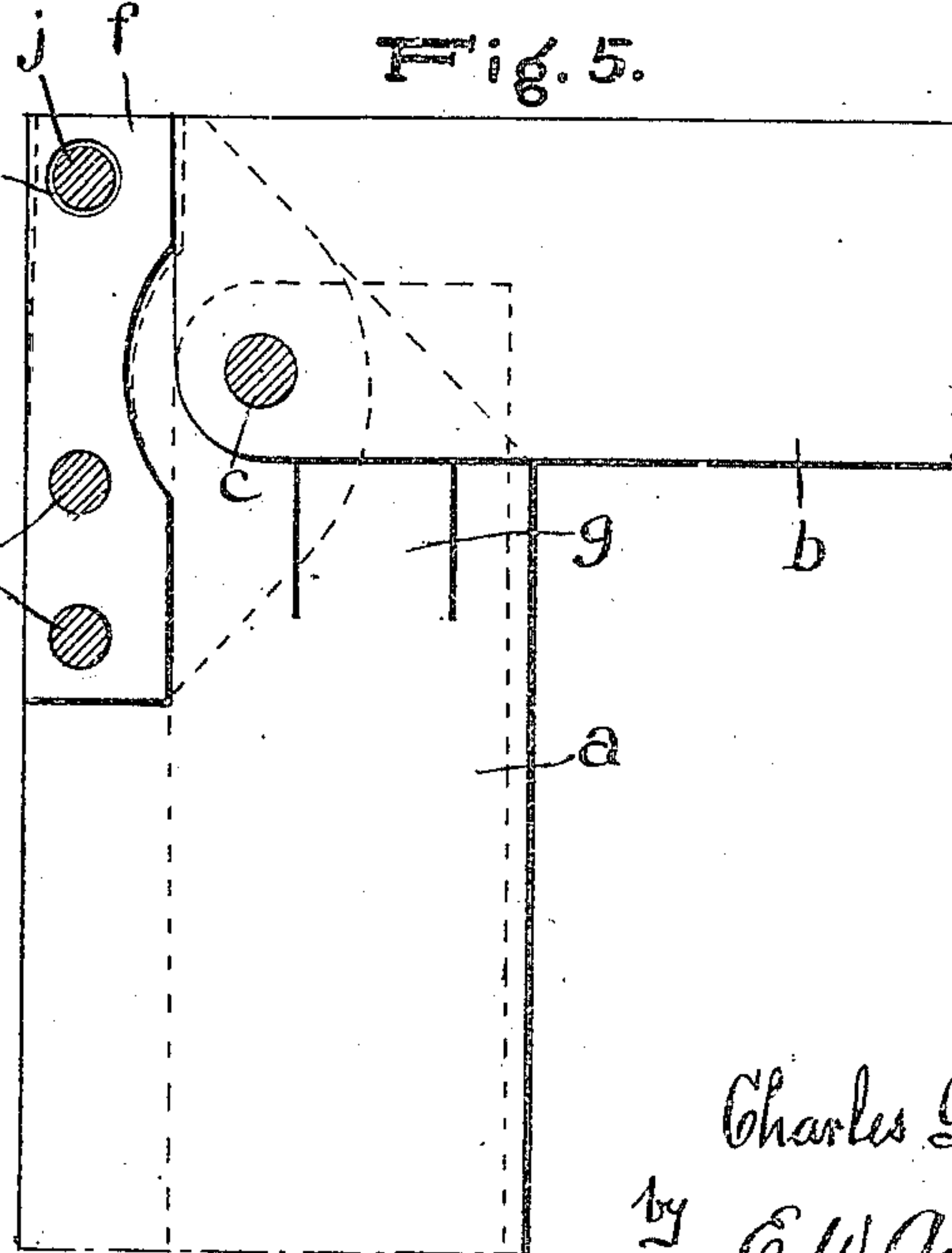
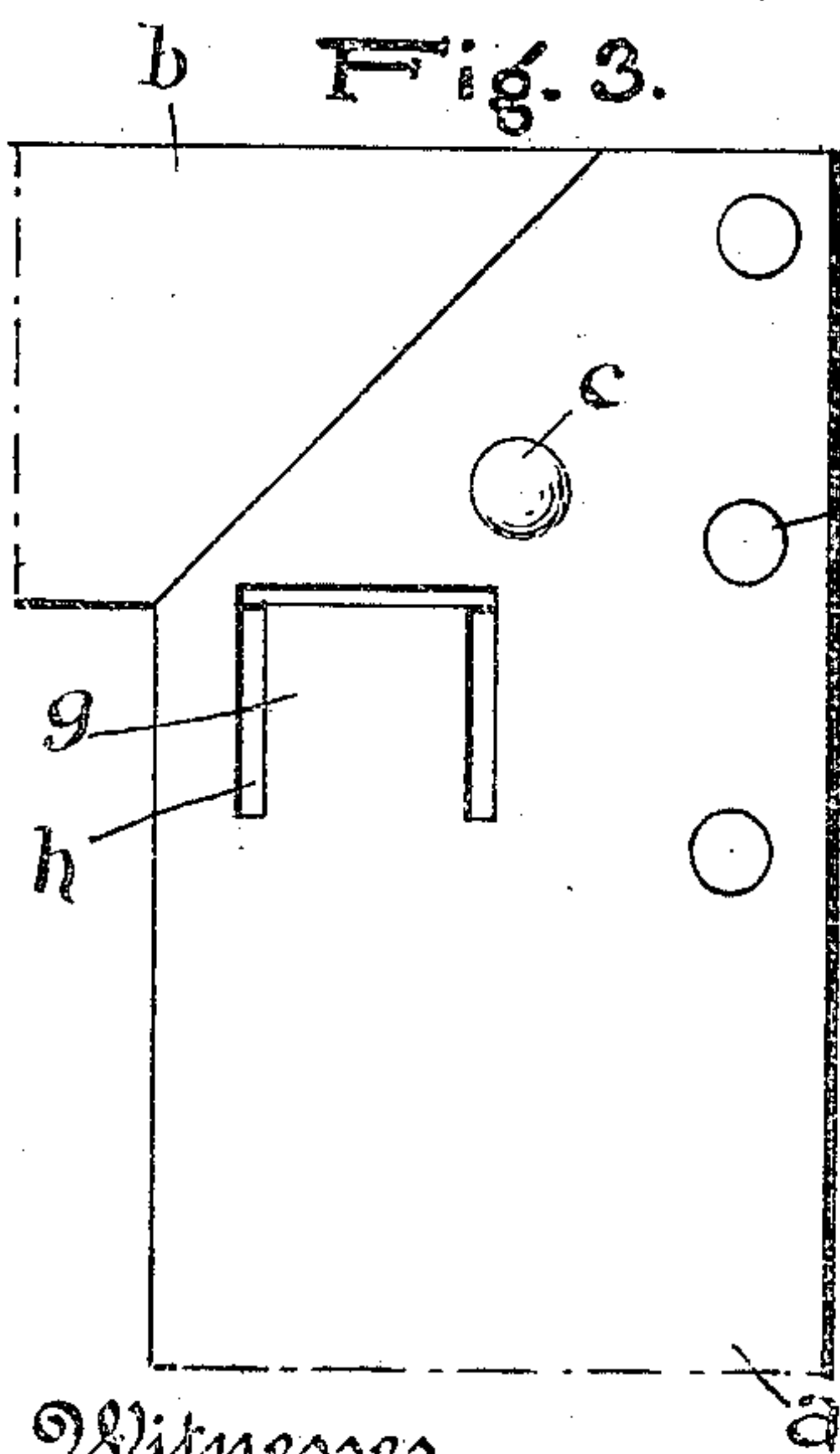
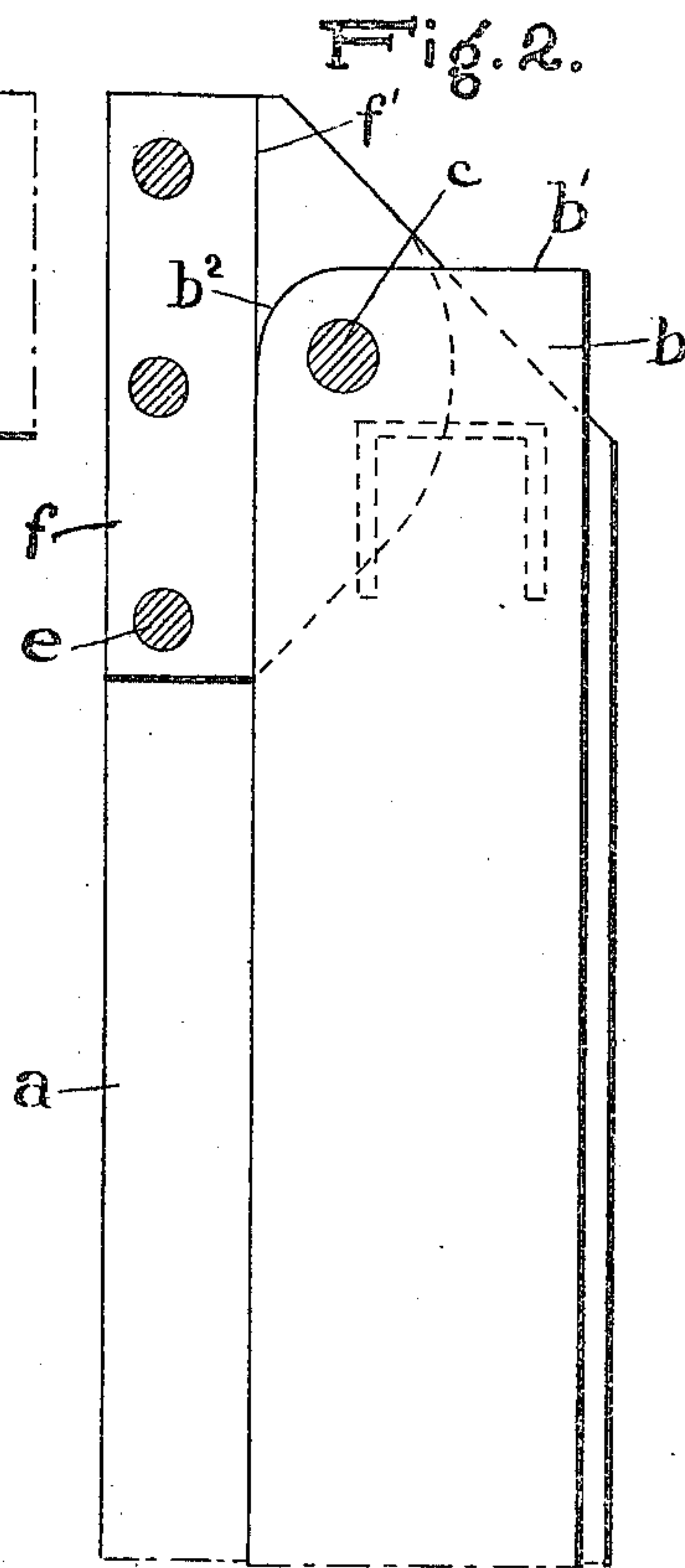
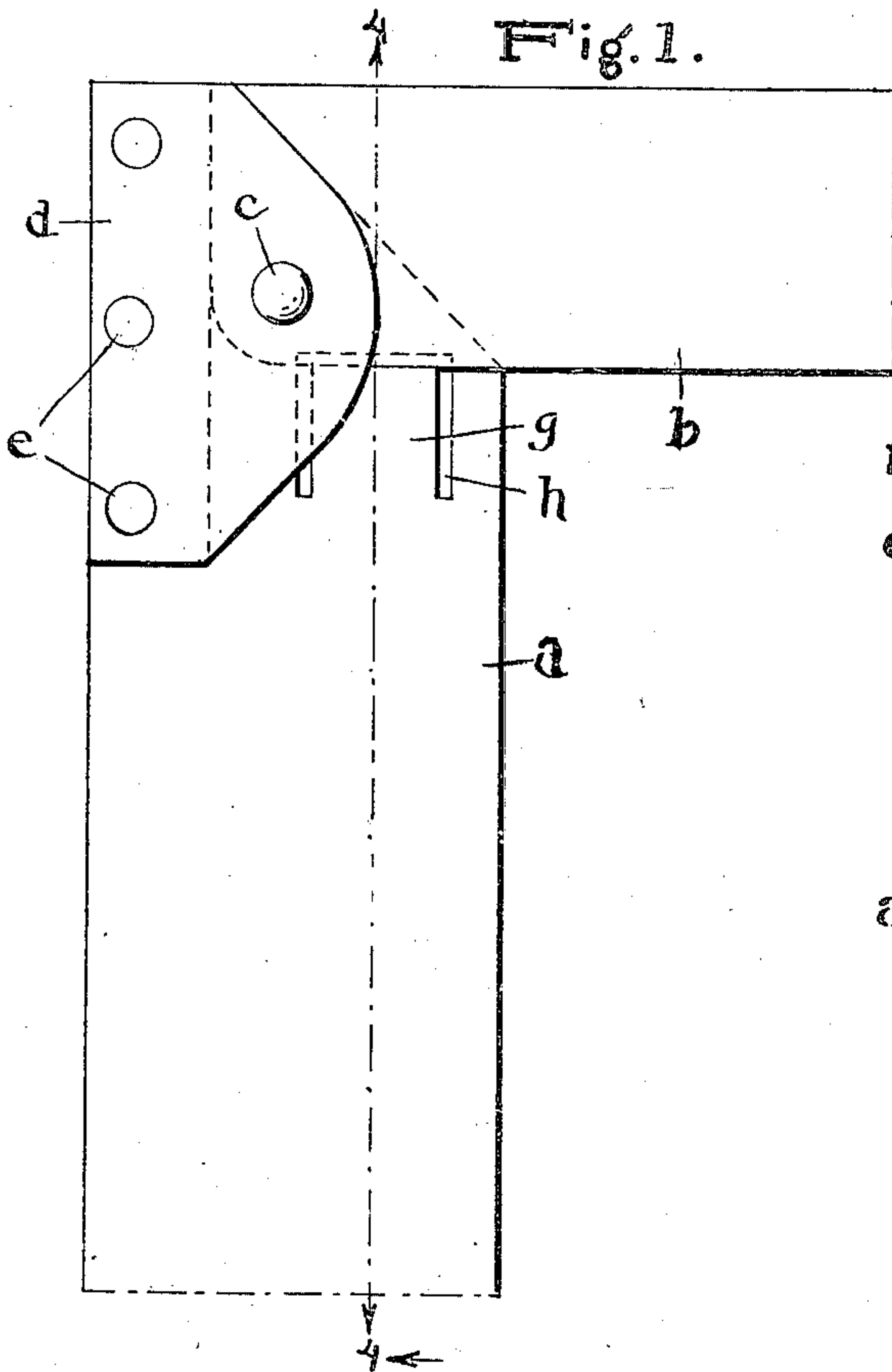
C. G. LARSON.

TRY SQUARE.

APPLICATION FILED NOV. 10, 1909.

958,257.

Patented May 17, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

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TRY-SQUARE.

958,257.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed November 10, 1909. Serial No. 527,234.

To all whom it may concern:

Be it known that I, CHARLES G. LARSON, a citizen of the United States, resident of Burlington, in the county of Des Moines and State of Iowa, have made a certain new and useful Invention in Try-Squares; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side view of my try square partly broken away. Fig. 2 is a similar view with the corner clamp plate removed and the pivoted arm folded. Fig. 3 is a side view of the try square with parts broken away and taken from the opposite side. Fig. 4 is a section on the line 4—4, Fig. 1. Fig. 5 is a side view of my try square with the corner clamp plate removed and embodying modifications, the folded position of the pivoted arm and the position taken by the spring piece when released being shown in dotted lines.

The invention has relation to try-squares, having for its object the provision of a simple and practical folding square which may be manufactured economically.

The invention consists in the novel construction and combinations of parts as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the letter *a*, designates the main arm of the square, which is made of metal, preferably spring steel, and *b*, is the folding arm, pivoted to the part *a*, at *c*, a corner clamp plate *d*, having rivet connection with the part *a*, at *e*, *e*, and separated therefrom by an intermediate or bridge piece *f*, including an interval between the same and the part *a*, within which closely fits the pivoted end of the arm *b*, such clamp plate serving to hold the arm *b*, in close relation to the main arm *a*, at all times.

When the pivoted arm *b*, is brought around or unfolded at right angles to the arm *a*, its squared rear end *b'*, is brought in contact with the squared inner edge *f'*, of the intermediate or bridge piece *f*, a spring tongue *g*, forming an integral part of the arm *a*, at the same time springing under the lower edge of the arm *b*, to securely hold it

in accurate squared position with relation to the arm *a*. Said tongue is located wholly within and spaced apart from both longitudinal bounding edges of the main arm.

The corner clamp plate *f*, having its outer edge portions squared off evenly with the alined outer edge portions of the two square arms, the whole device forms an accurate measure.

It is preferred that the spring tongue *g*, be separated from the metal of the arm of which it forms a part by a narrow interval or slot *h*, surrounding three sides of the tongue, in order that its spring movement may be in no danger of being interfered with. The spring tongue also acts to hold the pivoted arm in folded position, and may be readily pressed aside with the finger from abutment against the lower edge of the pivoted arm when it is desired to fold the same, said arm having a rounded inner lower corner *b²*, to allow such folding.

A modified form of the invention is shown in Fig. 5 of the drawings, wherein the intermediate or bridge piece *f*, has two lower rivets *i*, *i*, connecting the same with the corner clamp plate *d*, and the main arm *a*, of the square, a third upper rivet *j*, connecting the clamp plate and main arm but being somewhat smaller in cross-section than the diameter of the opening *k*, of the bridge piece, through which it passes. In this way the upper end portion of the intermediate or bridge piece will be allowed to spring backward slightly when the pivoted arm of the square is unfolded into squared position, having spring contact with the inner edge portion of the pivoted arm to hold it down against the spring tongue and prevent any play of the pivoted arm upon its pivot once it is unfolded past the spring tongue. In this figure of the drawings is also shown a modification wherein the interval *h*, surrounding three sides of the spring tongue is dispensed with, as it may be in some cases.

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

1. A try square having a main arm and a pivoted arm, said main arm having an abutment for the inner transverse edge of the pivoted arm when in squared position, and a spring tongue forming an integral part of the main arm, located wholly within and spaced from both longitudinal bounding

edges of said main arm and capable of springing past the lower longitudinal edge of the unfolded pivoted arm.

2. A try square having a main arm and a
5 pivoted arm, said main arm having an abutment for the inner transverse edge of the pivoted arm, and a spring tongue forming an integral part of the main arm, located wholly within and spaced apart from both
10 longitudinal bounding edges of the main arm, and capable of springing past the lower longitudinal edge of the unfolded pivoted arm, said tongue having a slot surrounding the same on three sides and bounded on the
15 outside by the body of the main arm.

3. A try square having a main arm and a pivoted arm, said main arm having an integral spring tongue capable of springing past the lower longitudinal edge of the un-
20 folded pivoted arm, and spring means for

pressing said pivoted arm down against the spring tongue to hold it in squared relation.

4. A try square having a main arm and a pivoted arm, said main arm having a clamp plate overlapping and separated by an in- 25
terval from the inner end portion of the pivoted arm, and an intermediate spring abutment bridge-piece having a fast rivet connection at one end portion thereof and a
30 loose rivet connection at the other end portion thereof with said main arm, and an integral spring tongue capable of springing past the lower longitudinal edge of the unfolded pivoted arm.

In testimony whereof I affix signature, in 35
presence of two witnesses.

CHARLES G. LARSON.

Witnesses:

P. A. LARSON,
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