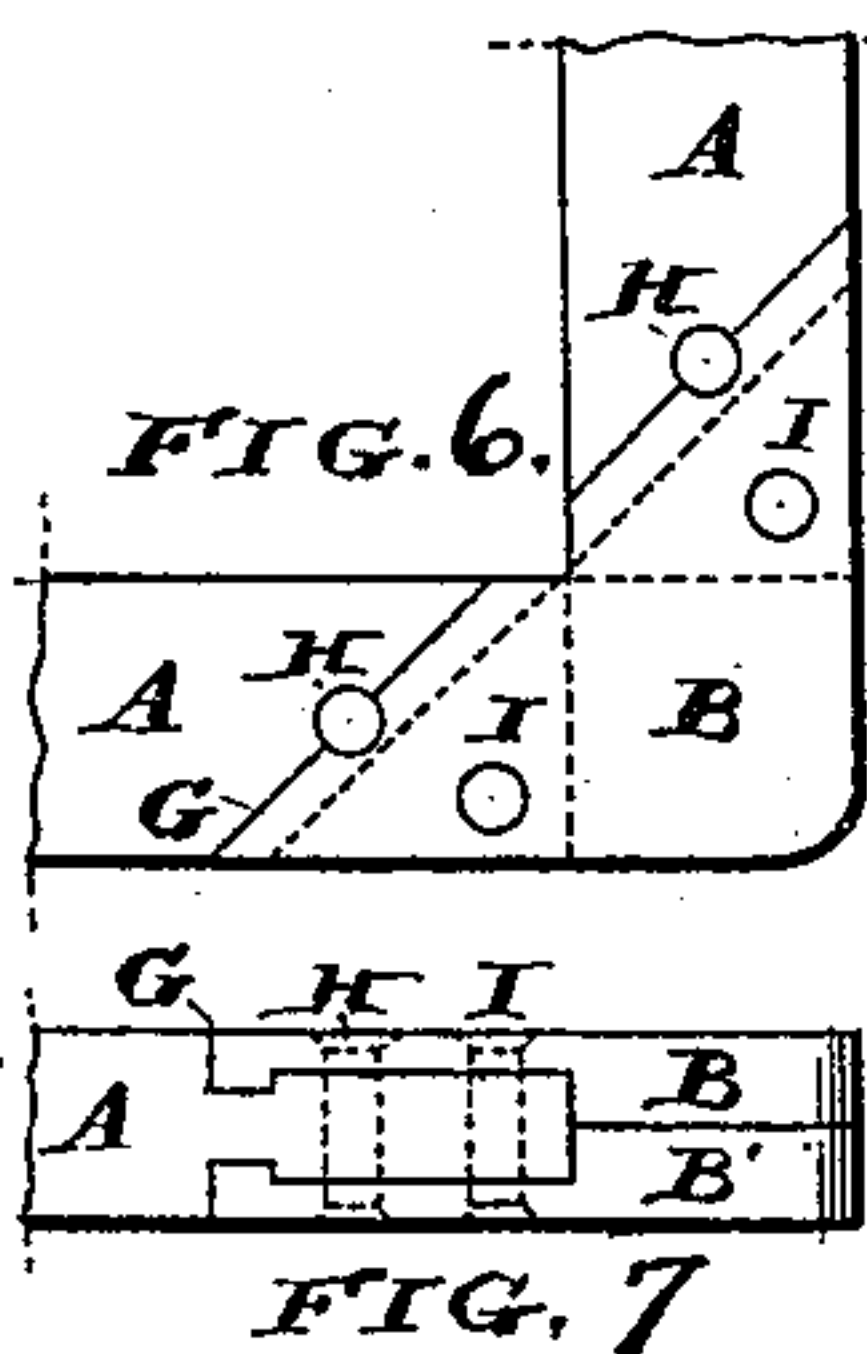
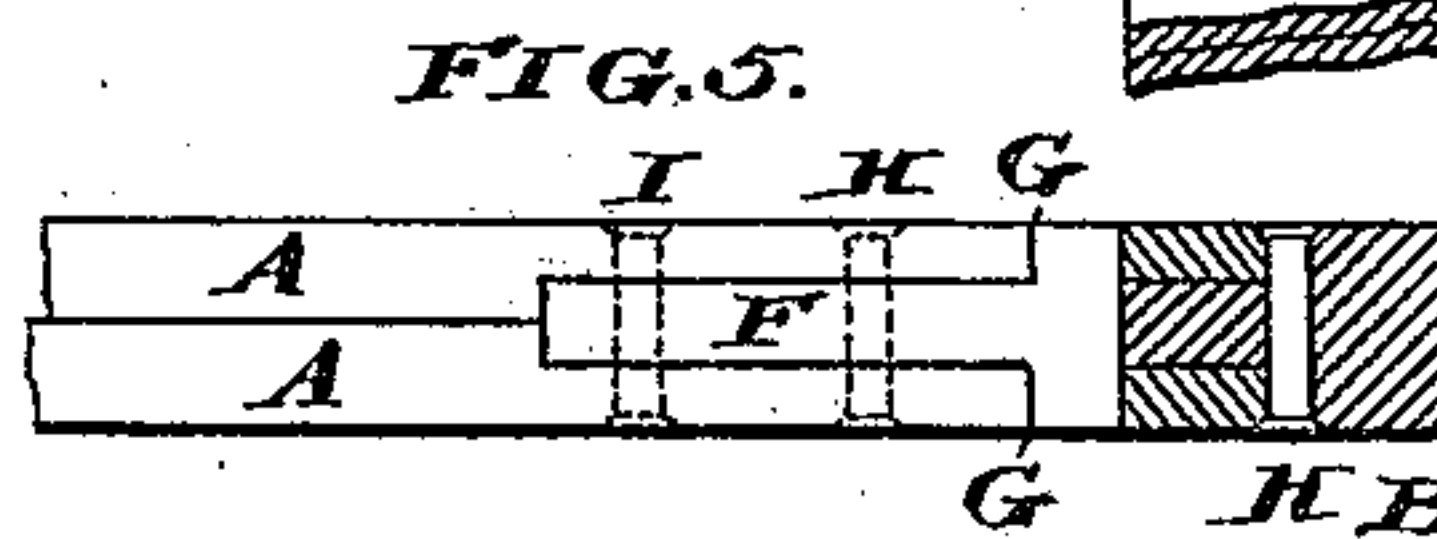
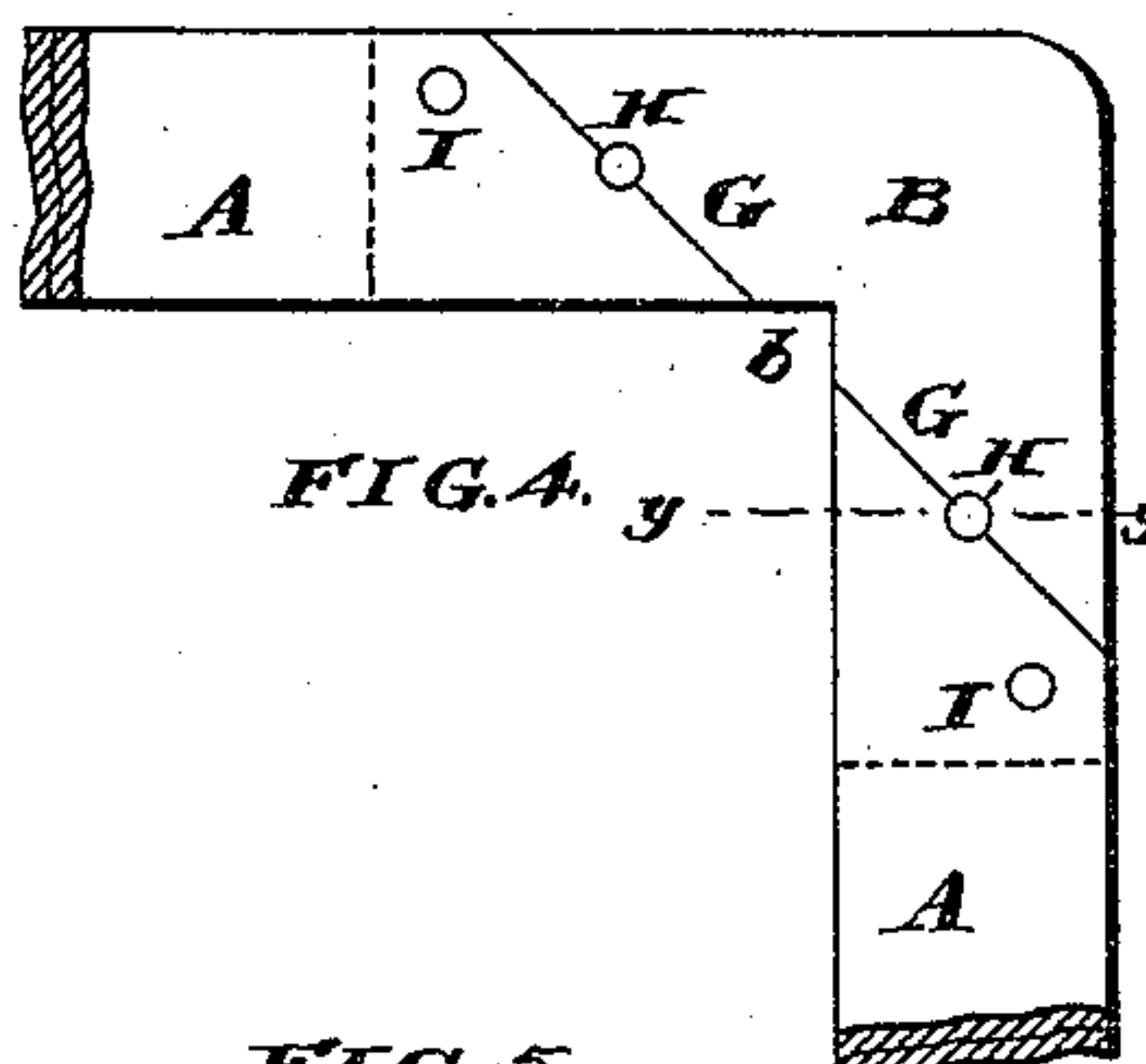
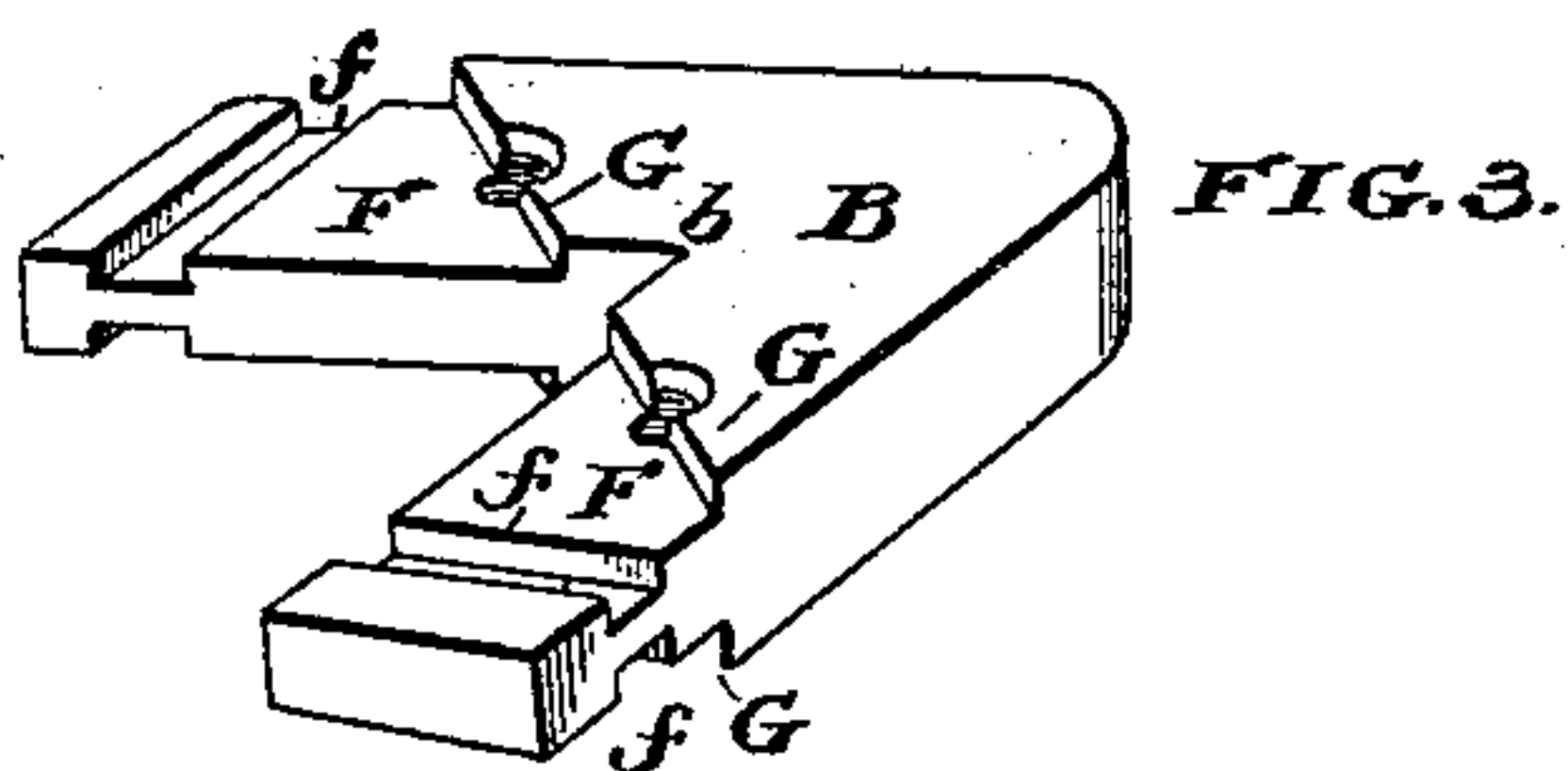
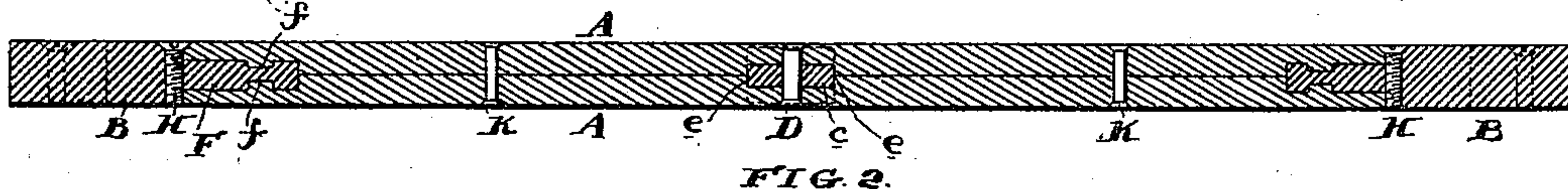
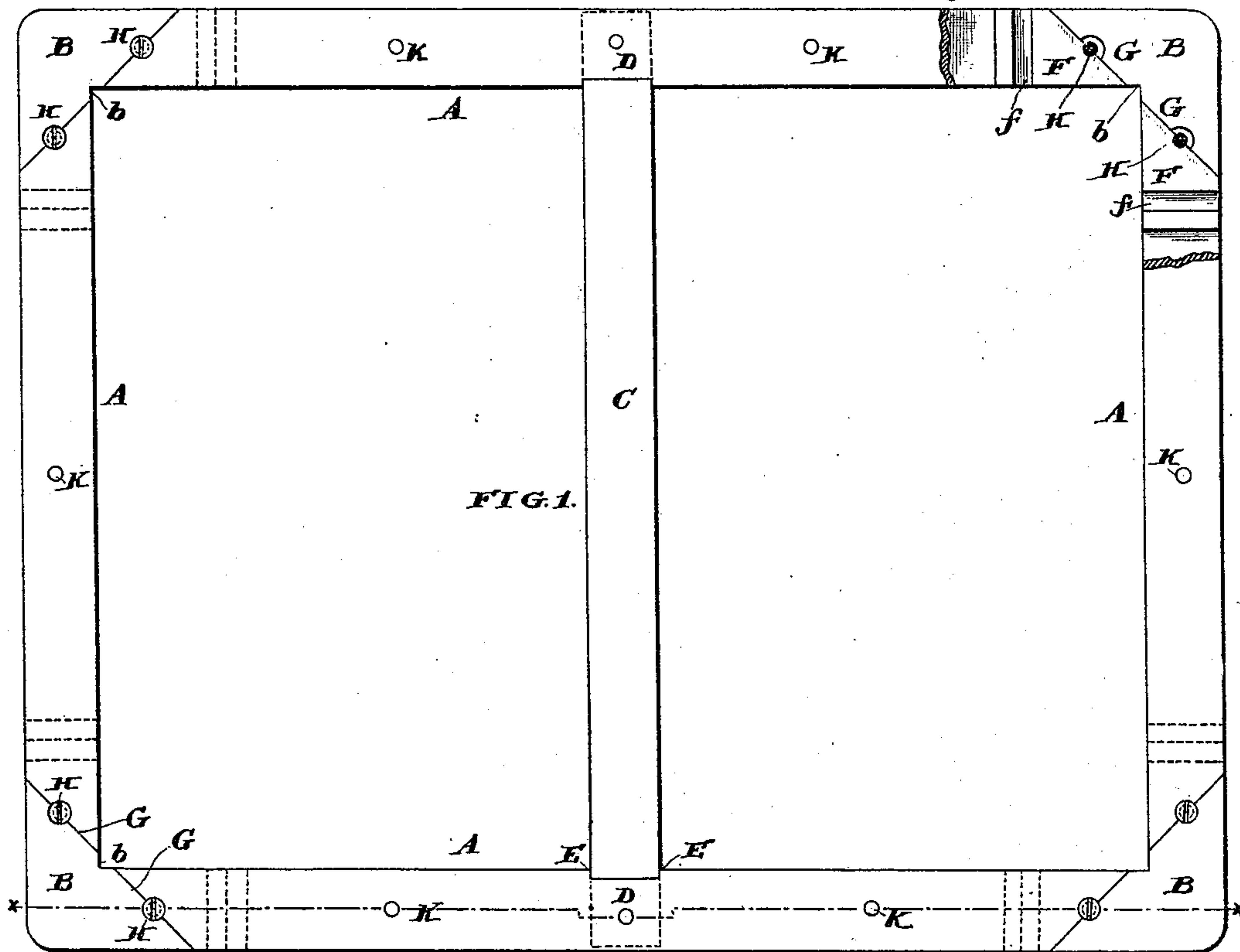


(No Model.)

H. P. FEISTER.  
PRINTER'S CHASE.

No. 451,923.

Patented May 12, 1891.



WITNESSES:  
David S. Williams  
[Signature]

INVENTOR:  
Henry P. Feister  
By this atty.  
[Signature]



# UNITED STATES PATENT OFFICE.

HENRY P. FEISTER, OF PHILADELPHIA, PENNSYLVANIA.

## PRINTER'S CHASE.

SPECIFICATION forming part of Letters Patent No. 451,923, dated May 12, 1891.

Application filed July 2, 1889. Serial No. 316,347. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY P. FEISTER, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improvement in Printers' Chases, of which the following is a specification.

My invention has reference to printers' chases; and it consists of certain improvements which are fully set forth in the following specification and shown in the accompanying drawings, which form a part thereof.

My object is to form a chase of a series of pieces, which are united together in such a manner that while imparting all the necessary strength they can be readily and cheaply repaired in case of breakage, and the repaired chase is in all respects as strong and perfect as in its original condition. With my improvement a repaired chase would not be discernible from one which never required repairing.

In carrying out my invention I form the chase of wrought-iron or steel bars and corner-pieces, the latter being so shaped and locked or secured to the ends of the bars that a perfect, strong, and yet replaceable corner is obtained. In constructing such a chase the joints should be made so that the bars forming the rectangle cannot shift in any direction, and it is most preferable to form the inter-right-angled corner in the corner-piece, as this is the place where the rupture usually occurs in practice in most chases. Furthermore, by putting the right-angled corner in the removable corner-piece the same may be cheaply formed. I prefer to form the corner-pieces of phosphor-bronze because of its great strength.

Referring now to the drawings, Figure 1 is a plan view of a chase embodying my invention in its preferred form with a portion of one corner broken away. Fig. 2 is a sectional elevation of same on line *x x*. Fig. 3 is a perspective view of one of the corner-pieces removed. Fig. 4 is a plan view of a corner of a chase embodying a modified form of my invention. Fig. 5 is a cross-section of same on line *y y*. Fig. 6 is a plan view of a corner of a chase, illustrating still another modification of my invention, and Fig. 7 is a side elevation of the same.

A are the side and end bars of the chase, and are preferably slightly shorter than the length of the opening within the chase, taken parallel to the bar. These bars are secured at right angles at each corner by the corner-pieces B.

The preferred form of corner-piece is clearly shown in Fig. 3, in which the corner portion is of a thickness equal to that of the chase, and is provided with two thinner webs F F, projecting laterally from the body of the corner-piece at right angles to each other, and formed with transverse grooves *f* on each face. The line of juncture of the webs F with the corner portion B forms oblique shoulders G G, and leaves the right-angled corner-notch *b*, as shown.

In the constructions of chase shown in Figs. 1 to 5 the side and end bars A are made in pairs, and are preferably riveted together at K. These bars on their ends are beveled off on their outer edges to fit against the oblique shoulders G, and are also shaped upon their adjacent surfaces at the ends with transverse notches to receive the webs F and fit into the notches *f* thereof. (See Fig. 2.) When the side and end bars are secured to the corner-pieces, screws or rivets H are passed through the said pieces and bars on the line of juncture at the shoulders G, and these screws or rivets perform the duty of holding the parts together in the length of the screws or rivets, and also of preventing any shifting of the bars on the corner-pieces along the line of the shoulders G. In large chases it is desirable to strengthen them by cross-bars, and also provide means for properly clamping or wedging the type in place by the quoins, which require a support against which to press. In adapting such cross-bar to my chase I make the bar C with tenons *c* on the ends, which are received in slots *e* in the side bars A, Figs. 1 and 2. The ends of the cross-bar C are received in notches E on the inner faces of the side bars, and this with the tenons prevent any displacement of the cross-bar. The side bars A are also tied to the cross-bar C by rivets D.

In the modification shown in Figs. 4 and 5 I have the same construction as shown in Figs. 1, 2, and 3, except that the grooves *f* in



the corner-pieces are omitted and rivets I substituted in lieu thereof. It is clear that in these various constructions the bars A may be in single thickness in place of being formed of two flat bars riveted or screwed together; but that would be more expensive to construct. In either case the ends of the bars are formed with recesses extending laterally into them and adapted to receive the laterally-projecting webs of the corner-pieces. The obliquity of the shoulder G makes it act as a locking-joint. The corner-pieces are preferably of phosphor-bronze.

In the modification of my invention shown in Figs 6 and 7 the webs having the notches *f* are formed upon the bars A, and the corner-piece B is made in halves or two parts formed to receive the web F and fit into the notches *f*, and the two parts of the corner-piece are clamped together by screws or rivets H over the web F.

While I prefer to make the chase of the general construction herein set out I do not

limit myself to the details, as they may be modified in various ways without departing from the spirit of my invention.

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

1. In a printer's chase, the side and end bars formed of two layers of metal secured together, in combination with locking corner-pieces having webs or extensions arranged between the ends of the bars and secured thereto, substantially as set out.

2. A removable corner-piece for a printer's chase, consisting of the part B, having two webs F, arranged at an angle to each other and formed with transverse grooves *f*, and the oblique shoulders G.

In testimony of which invention I have hereunto set my hand.

HENRY P. FEISTER.

Witnesses:

ERNEST HOWARD HUNTER,  
S. T. YERKES.