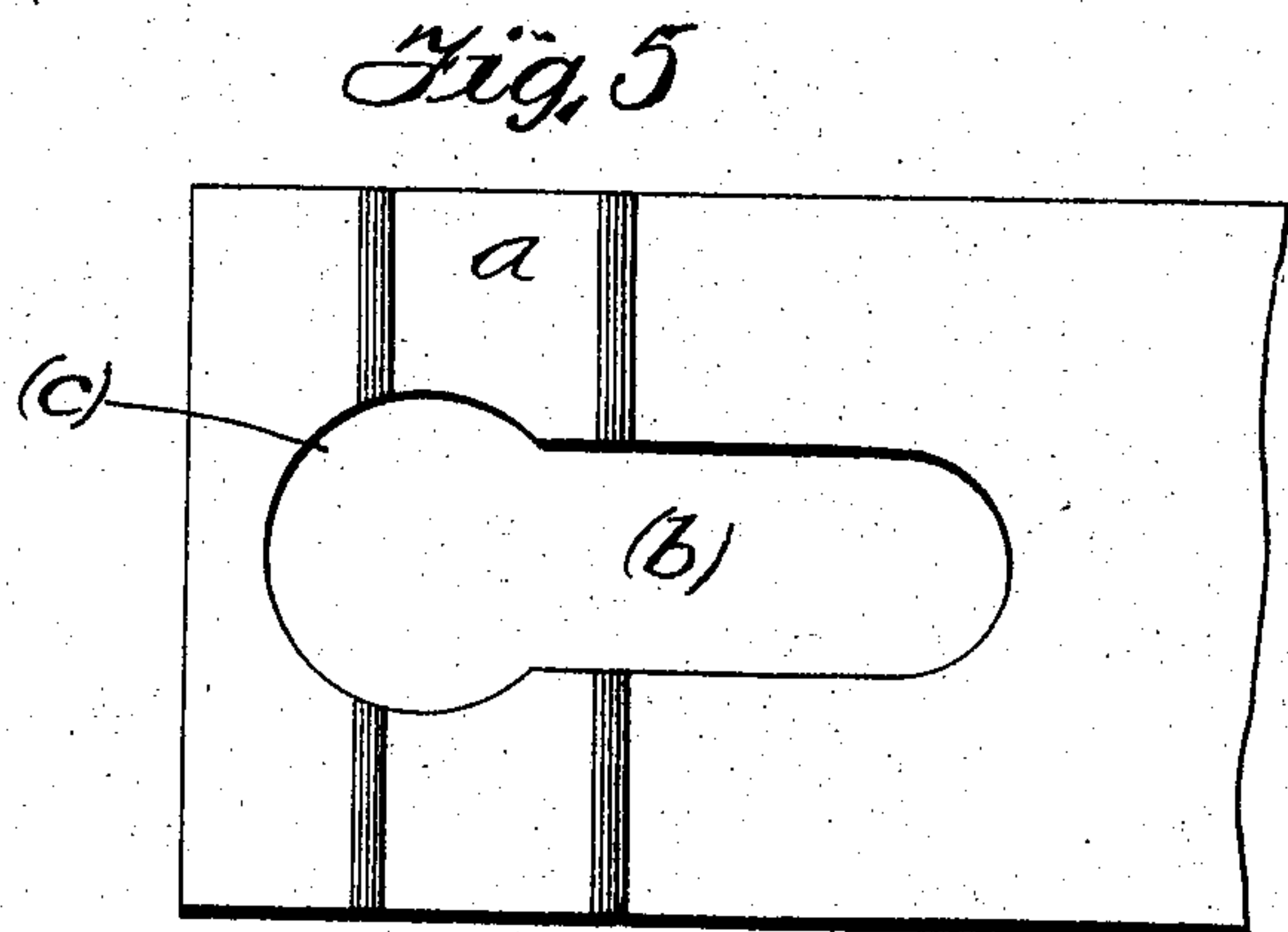
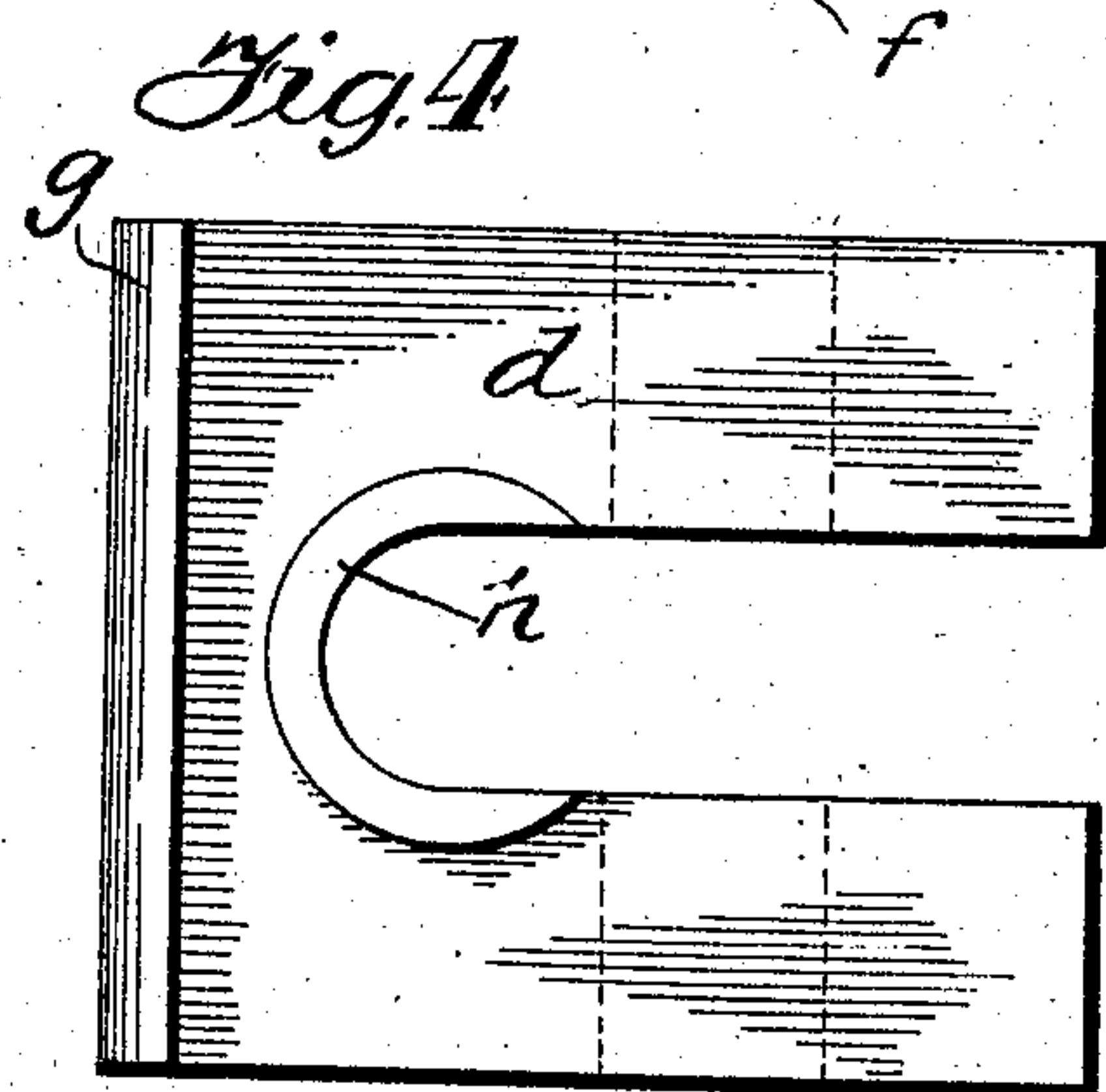
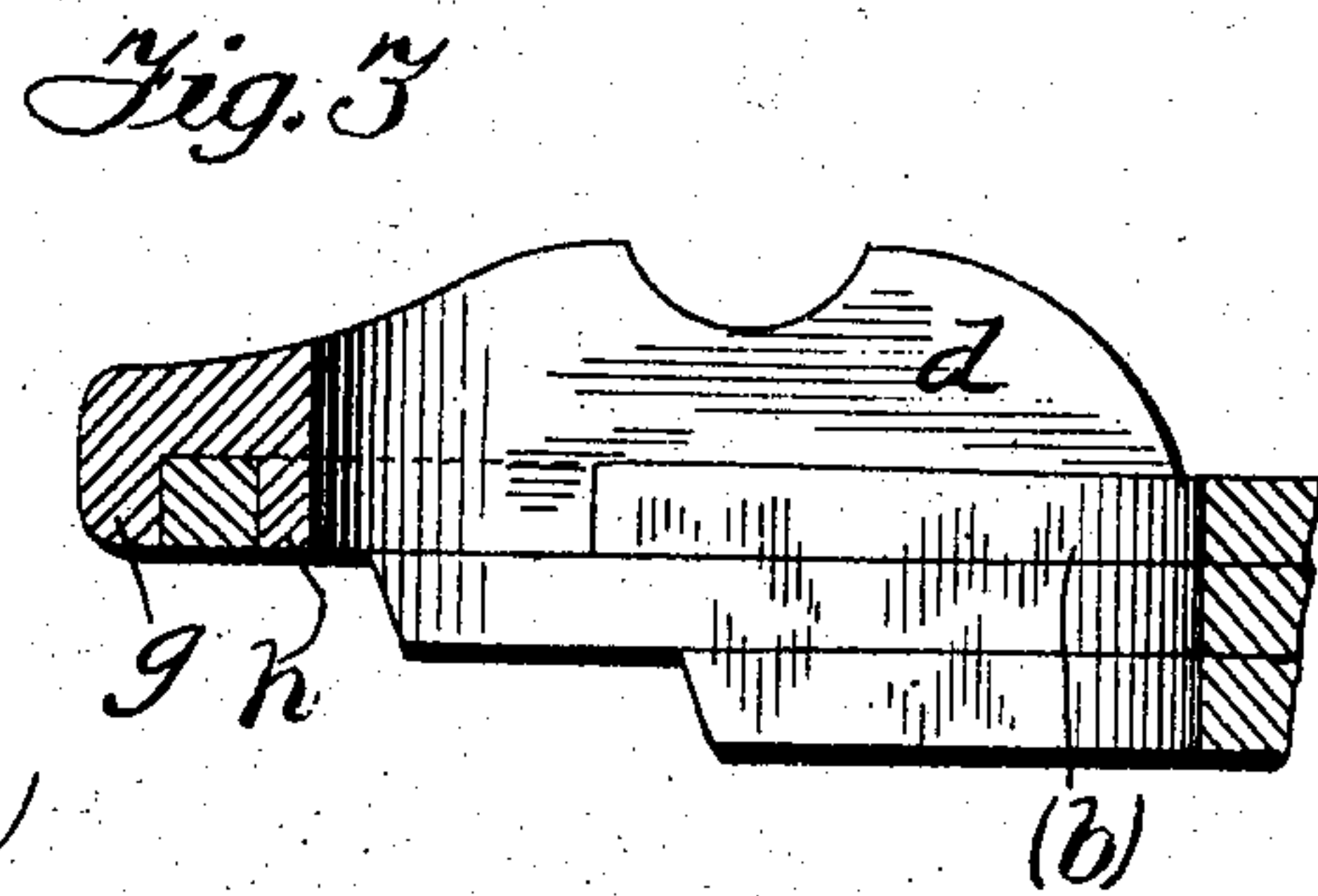
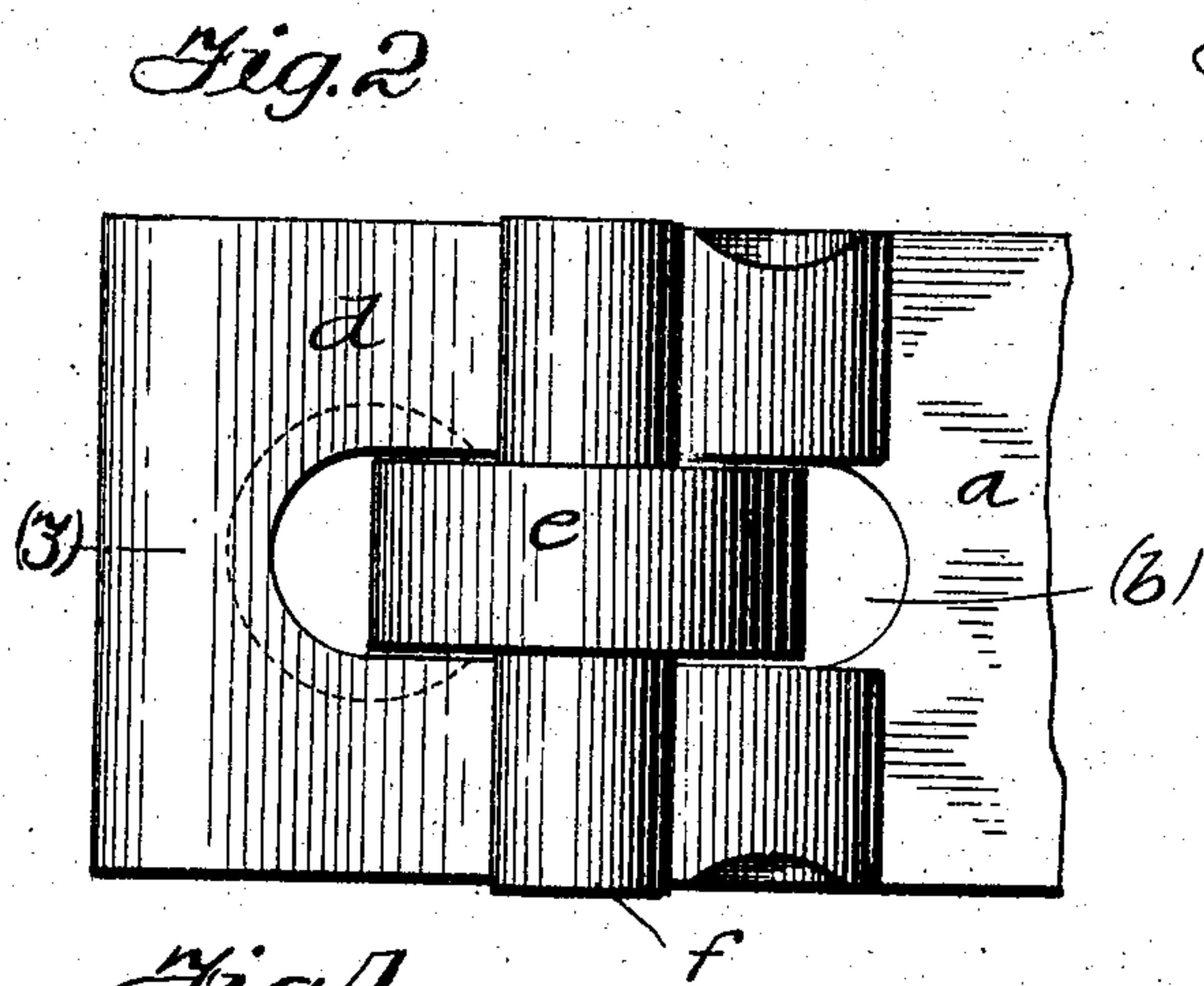
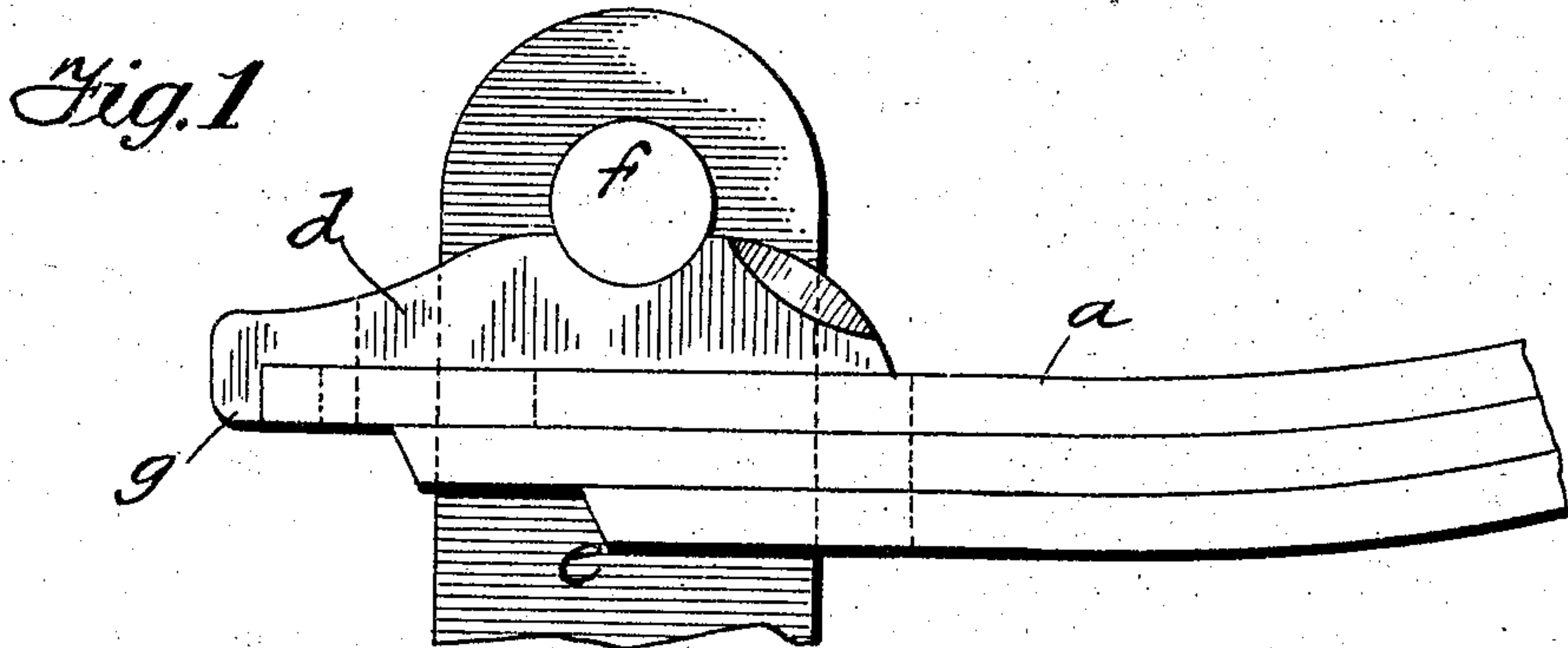


No. 781,442.

PATENTED JAN. 31. 1905.

C. A. MILLER.  
SEATING BLOCK FOR SPRINGS.  
APPLICATION FILED OCT. 5, 1903.



Witness:

F. W. H. Clay  
Chas. H. Ebert

Inventor,

Charles A. Miller

By

Paul Lynnevestedt  
Att'y.



# UNITED STATES PATENT OFFICE.

CHARLES A. MILLER, OF MARSHALLTOWN, IOWA.

## SEATING-BLOCK FOR SPRINGS.

SPECIFICATION forming part of Letters Patent No. 781,442, dated January 31, 1905.

Application filed October 5, 1903. Serial No. 175,790.

*To all whom it may concern:*

Be it known that I, CHARLES A. MILLER, a citizen of the United States, residing at Marshalltown, county of Marshall, and State of Iowa, have invented a certain new and useful Seating-Block for Springs, of which the following is a specification.

My invention relates to means for supporting the ends of plate springs, especially such springs as the semi-elliptical laminated springs used on locomotives and the like. The objects of the invention are, to provide a removable block which is conveniently attached to the end of a plate spring in order to support a hanger or other rest thereon and which is firmly retained in place on the spring by means provided on the block itself, and to provide such a seating block for springs as will not weaken the spring at the point where the weight comes thereupon, and does not require the bending of the spring itself in order to retain the block. These objects and other advantages which will hereinafter appear, I attain by means of the construction illustrated in preferred form in the accompanying drawing, wherein—

Figure 1 is a partial side elevation of the end of an elliptical spring showing my block placed thereon and the hanger in place.

Figure 2 is a top plan view of the device shown in Figure 1.

Figure 3 is a vertical central section through the block and end of the spring.

Figure 4 is an under plan view of the seating block itself, and

Figure 5 is an under plan view of the spring with the block removed.

The top leaf or leaves of the spring, *a*, is provided with a slot *b* for the hanger *e*, and in the end of this slot is an enlarged opening, indicated by *c* in Figure 5. On top of the spring the block *d* rests so as to support the pin *f* of the hanger *e*. This block is provided with a notch for seating the pin and has a depending annular flange *h* which fits within the opening *c* in the spring, and at its end is also provided with a downturned flange *g*

which engages the end of the spring, as will be seen at Figure 1.

By this means it will be observed that the top plate of the spring is weakened only by the necessary width of the slot *b*, the larger opening *c* being outside the line of thrust of the hanger pin *f*, and if desired the under leaves of the spring may extend entirely beneath the seating block. The block is held in place from lateral or longitudinal motion by means of the depending annular flange *h*. The end flange *g* also makes an additionally secure hold upon the spring and improves the appearance of the device.

It will be seen that this block is easily removable when the hanger is raised out of its slot and that when in place it has a secure hold upon the spring both against lateral and longitudinal movement thereon and presents a firm and solid seat for the support of the weight. The advantages of the device will readily occur to those familiar with its use.

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

1. The combination of a spring having a slot for the hanger therein, and a seating block for the hanger pin resting upon this spring provided with a slot having one end open and with means for retaining the block against motion in any direction with respect to the spring.

2. The combination with a spring having a slot with an enlargement at one end, and a seating block for the spring hanger having an open slot therein and a depending portion engaging the enlargement in the slot of the spring, substantially as described.

3. The combination with a spring plate provided with an elongated slot having an enlarged opening at one end thereof, of a seating block for the spring hanger provided with a depending annular flange to fit inside said enlargement of the slot.

4. The combination with a slotted flat spring, of a seating block provided with a depending

hollow stud and a flat surface to rest upon the spring and having a downturned end flange to engage the end of the spring.

- 5 The combination with a flat spring leaf having a slot therein, of a seating block for the spring hanger having a flange to engage the end of the spring and a depending stub to engage said slot, substantially as described.

In testimony whereof I have hereunder signed my name in the presence of the two 10 subscribed witnesses.

CHARLES A. MILLER.

Witnesses:

W. S. DAVIS,  
E. M. DICKS.