

(No Model.)

3 Sheets—Sheet 1.

C. FLEMING, Jr.
GATE OR DOOR FASTENING.

No. 462,909.

Patented Nov. 10, 1891.

Fig. 1.

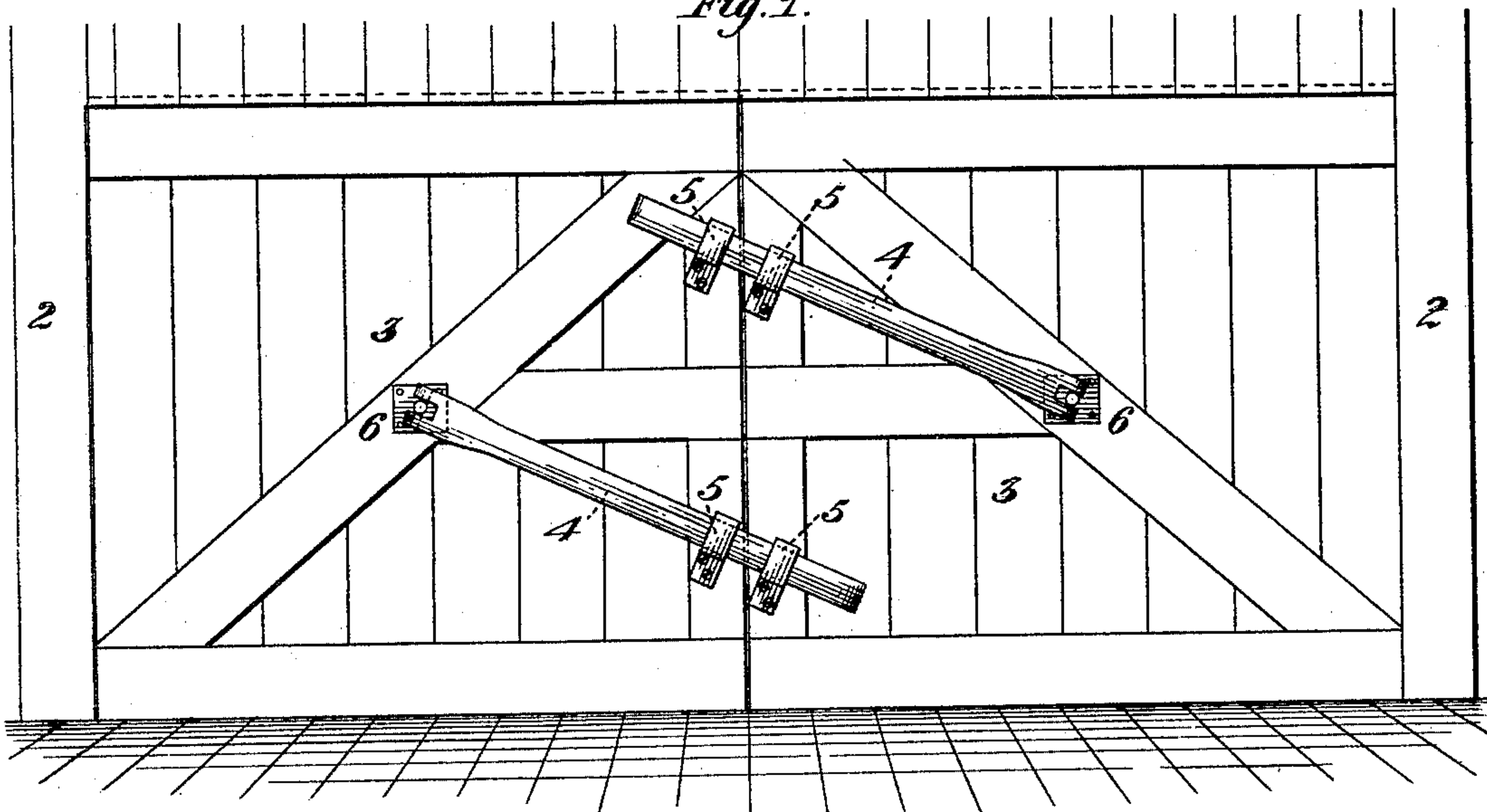
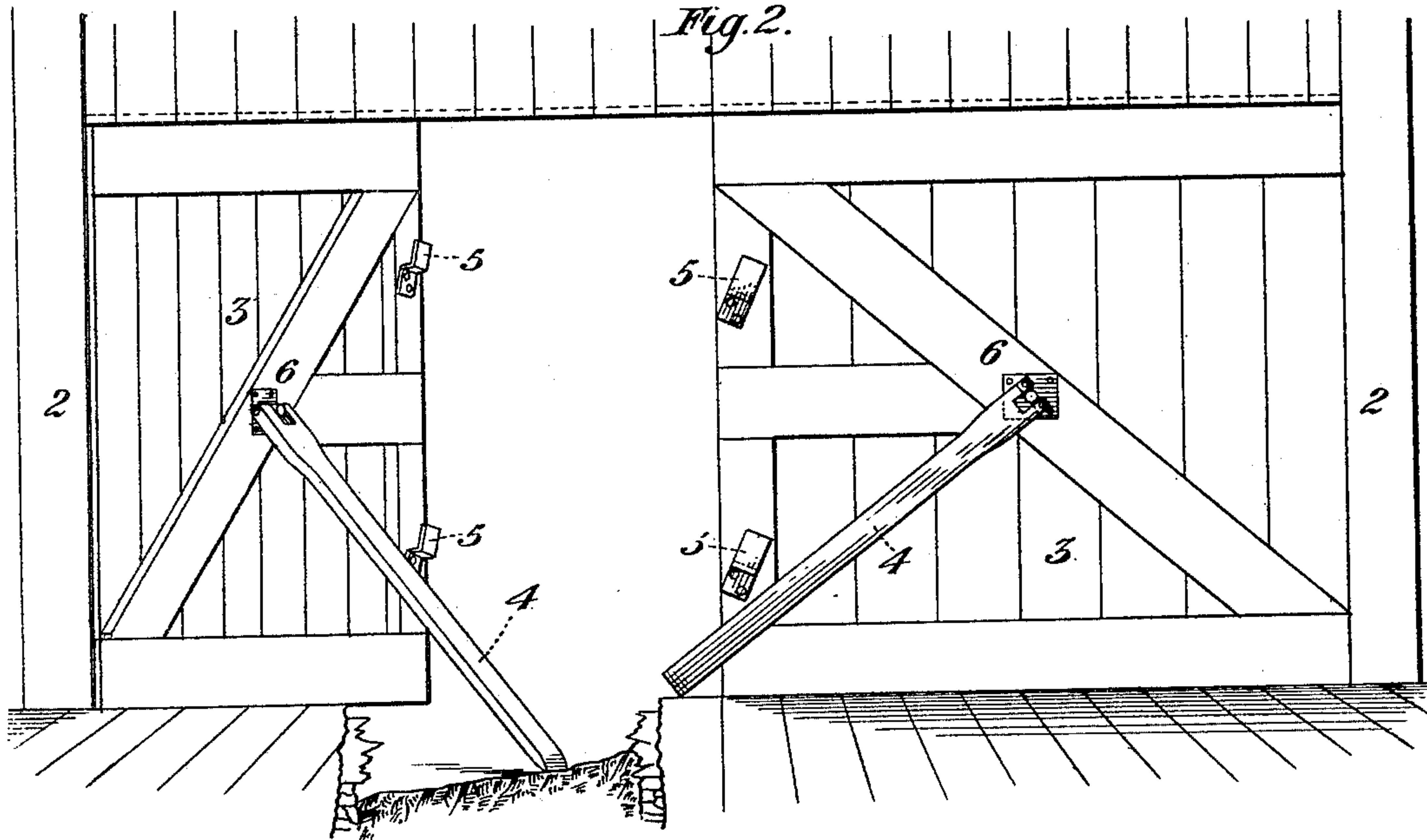


Fig. 2.



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his attorney

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Fig. 3.

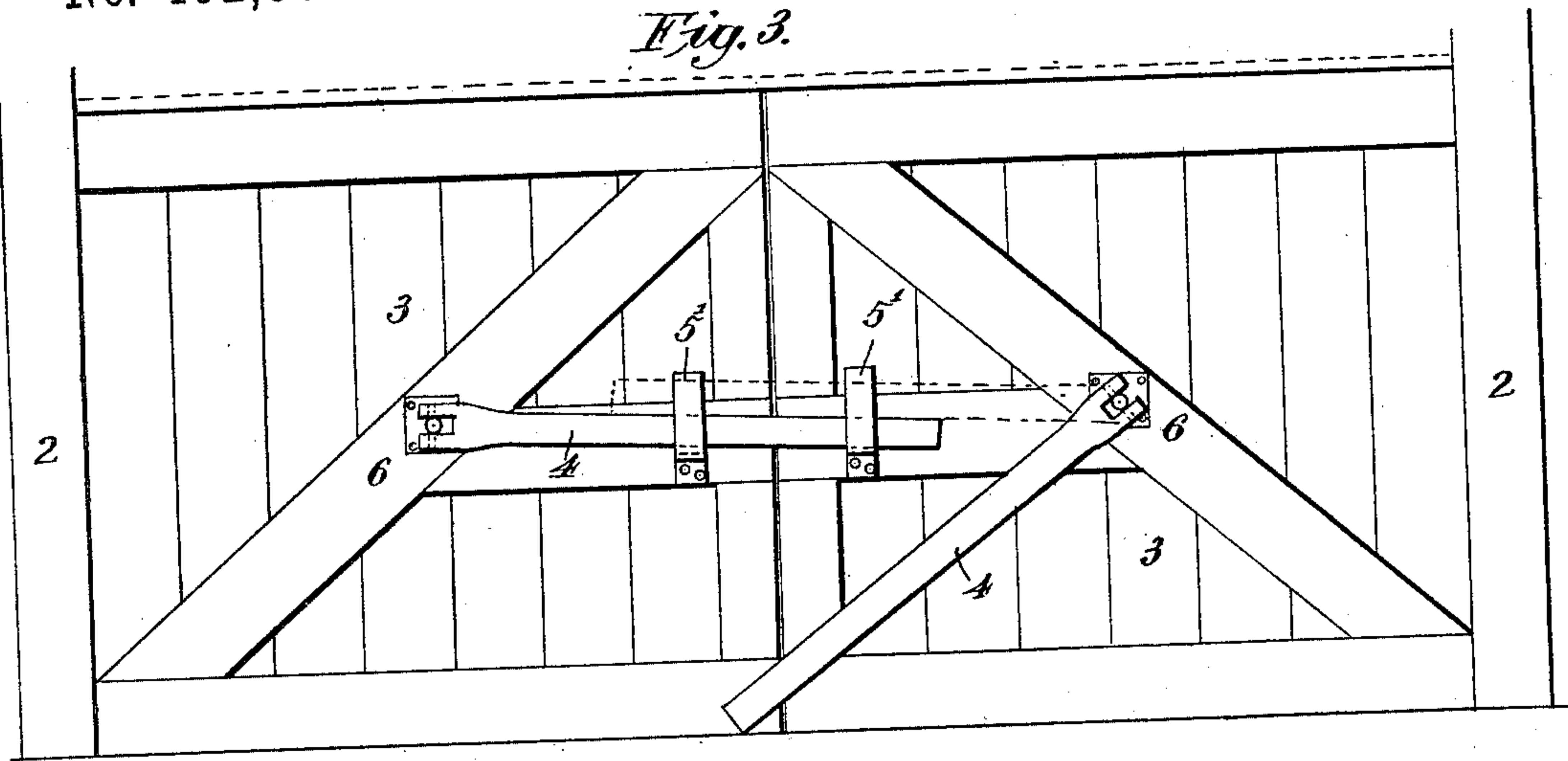


Fig. 4. V

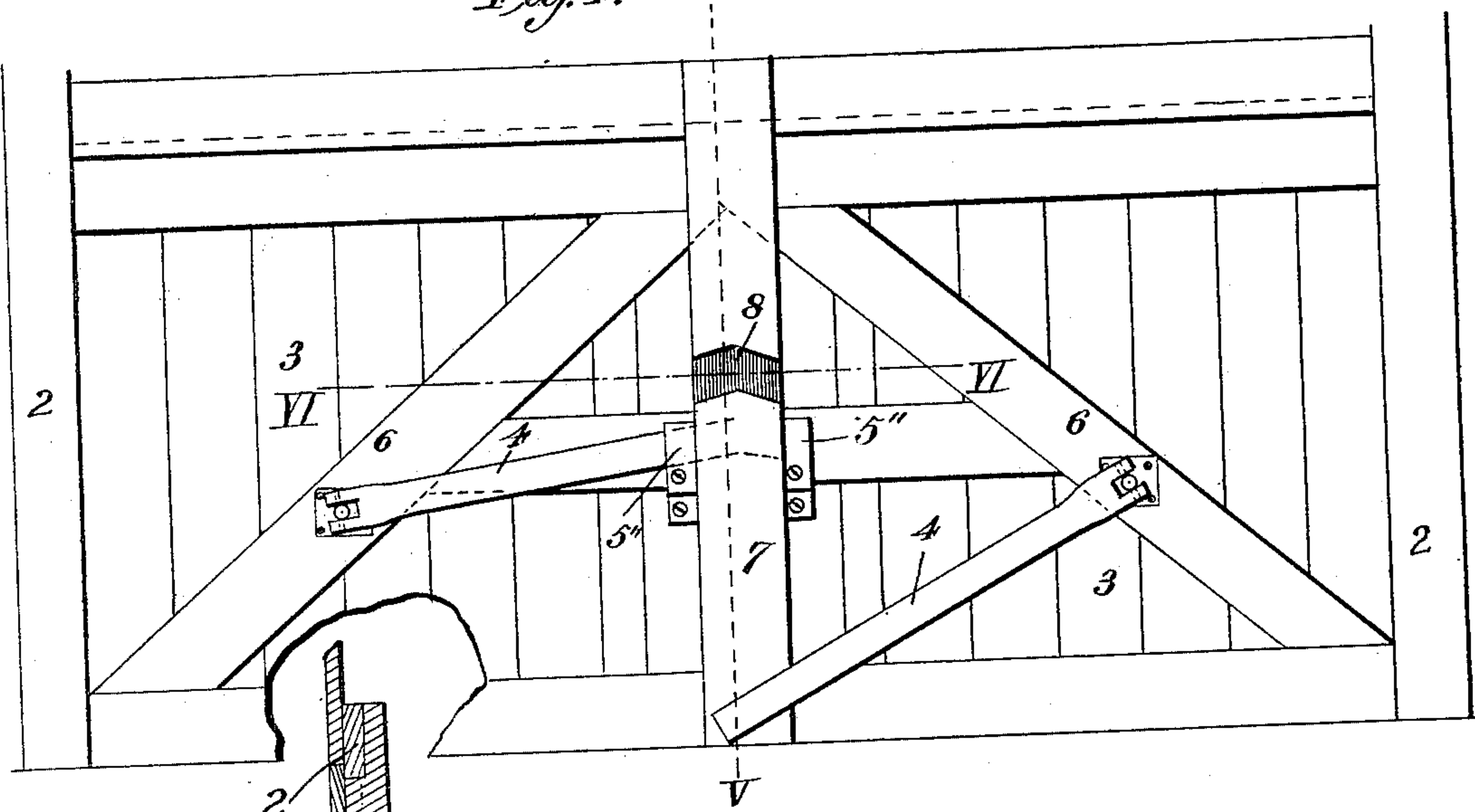


Fig. 5.

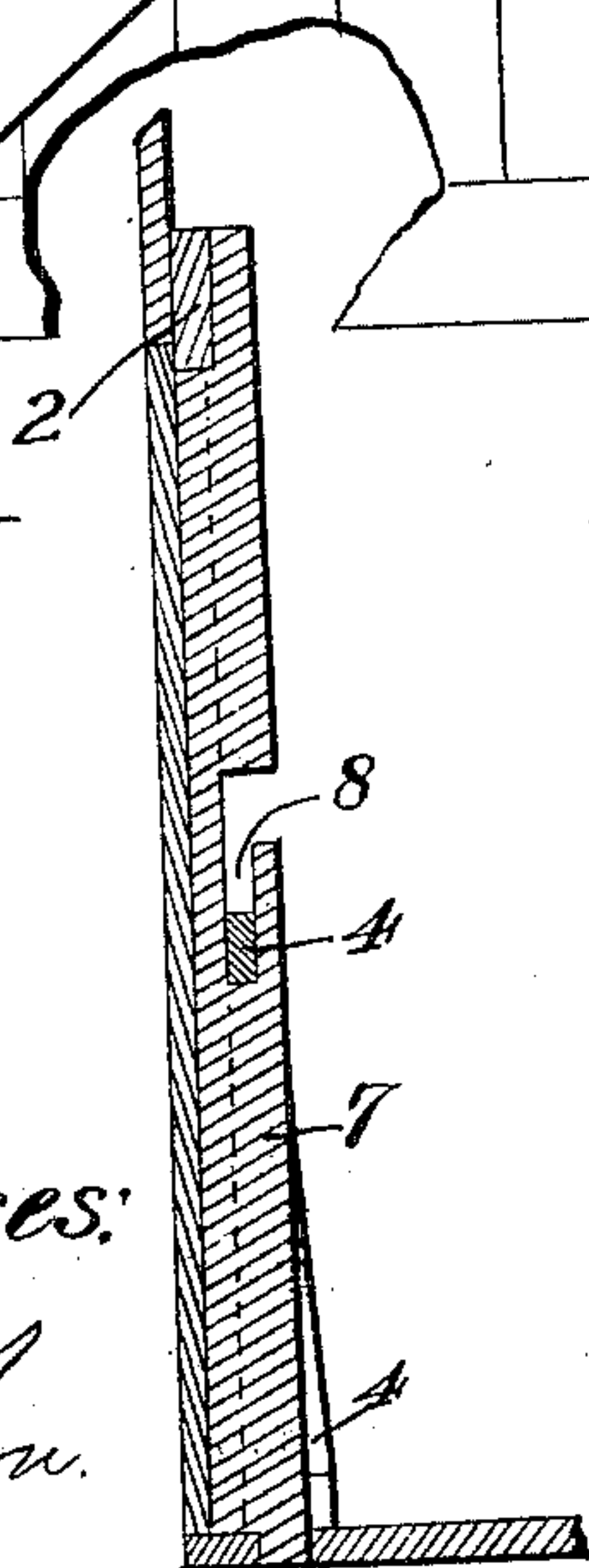


Fig. 6.



Witnesses:

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Inventor.

Cochran Fleming

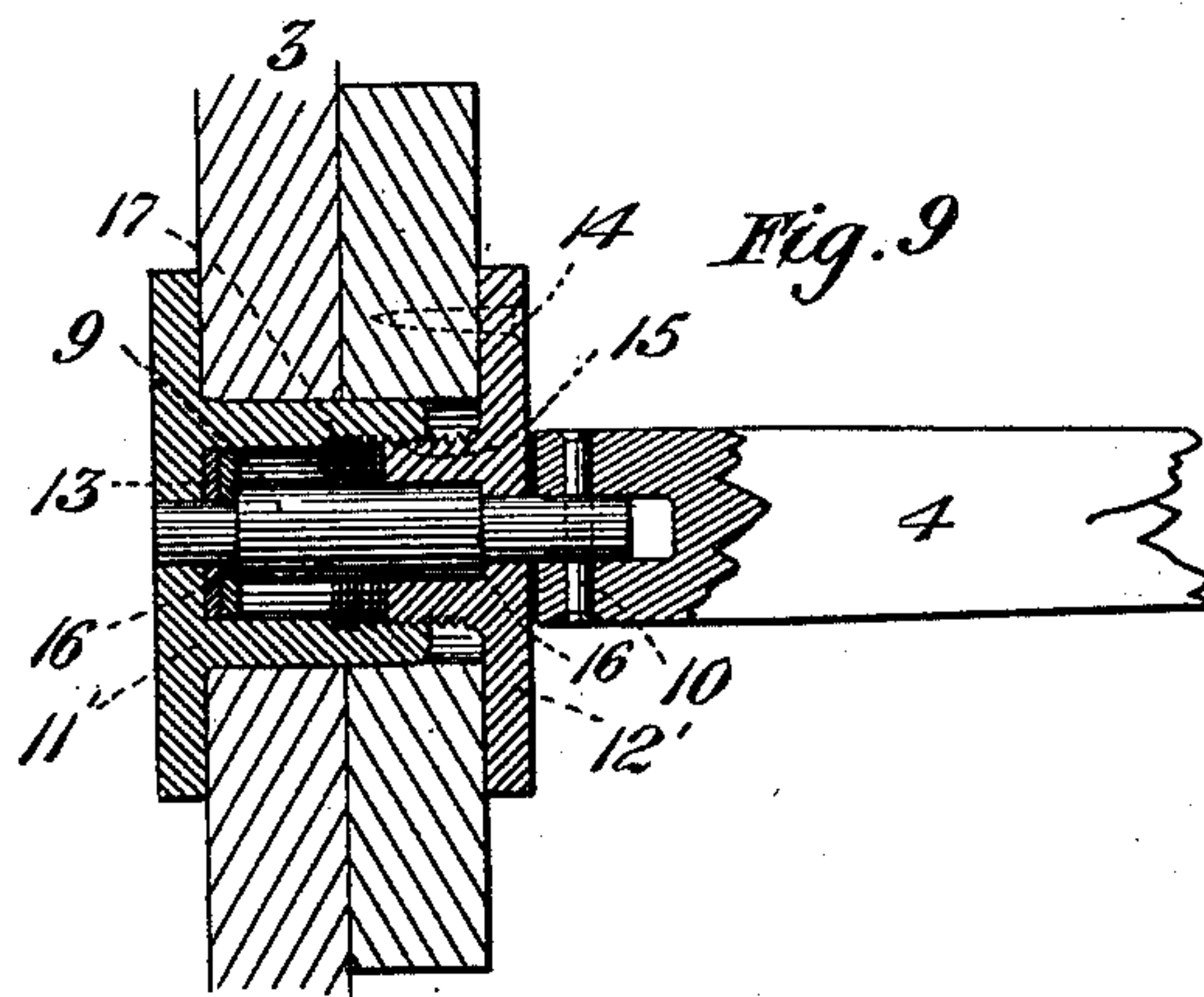
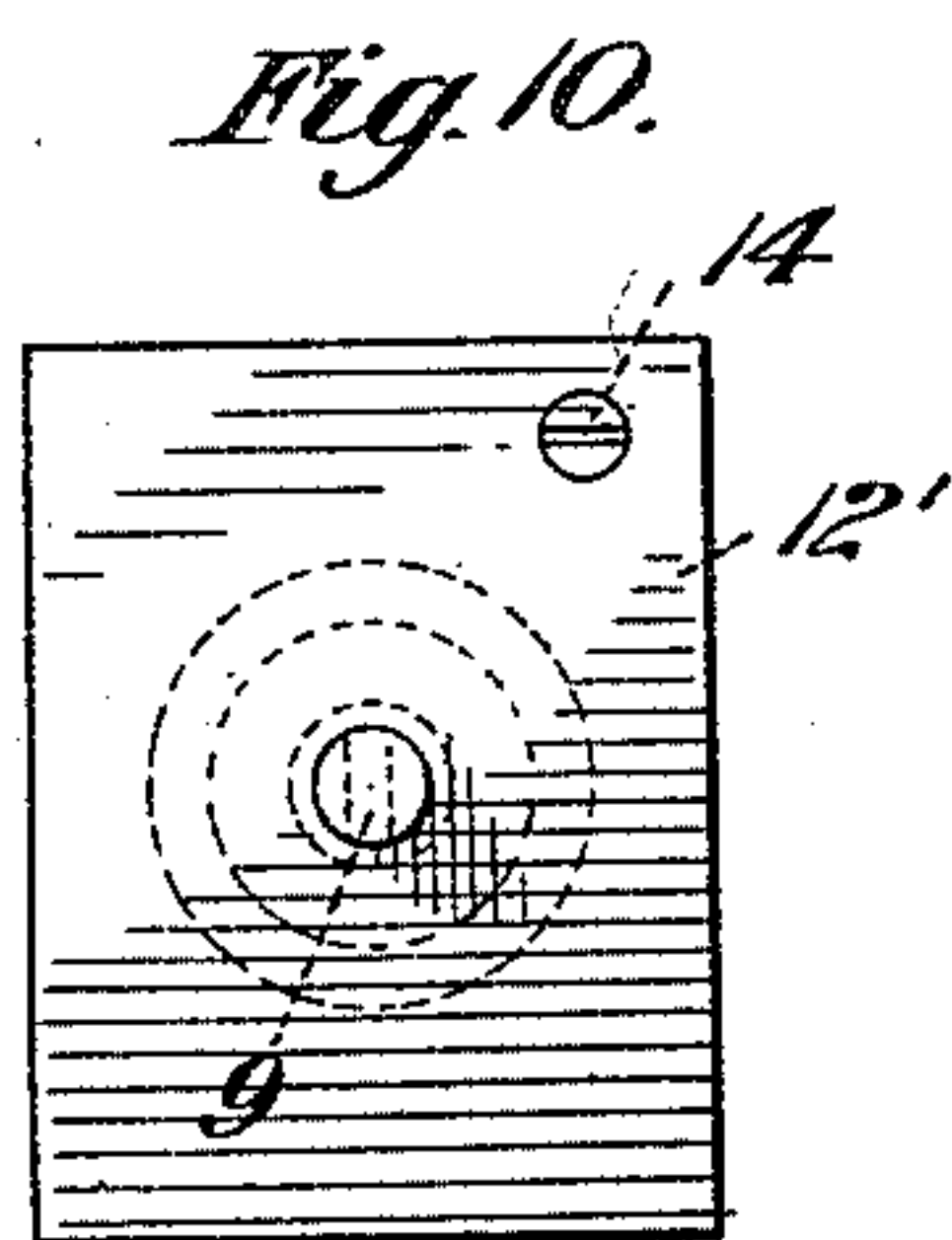
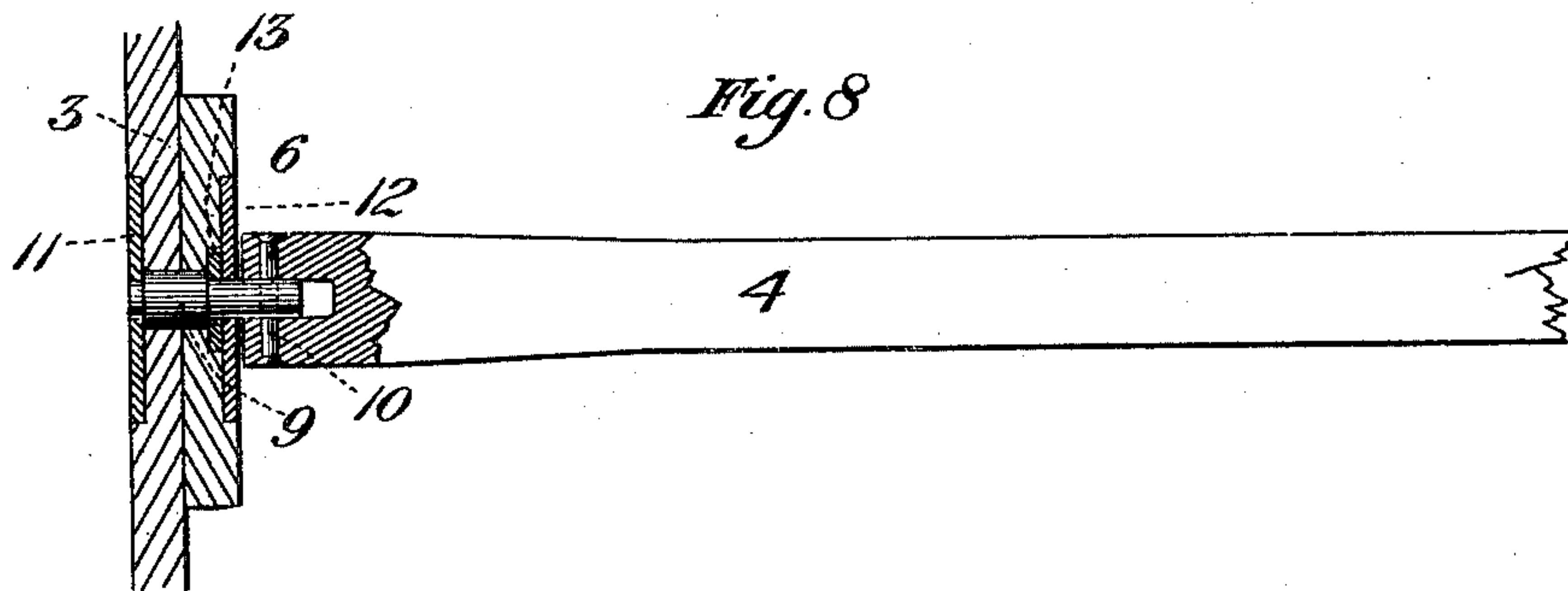
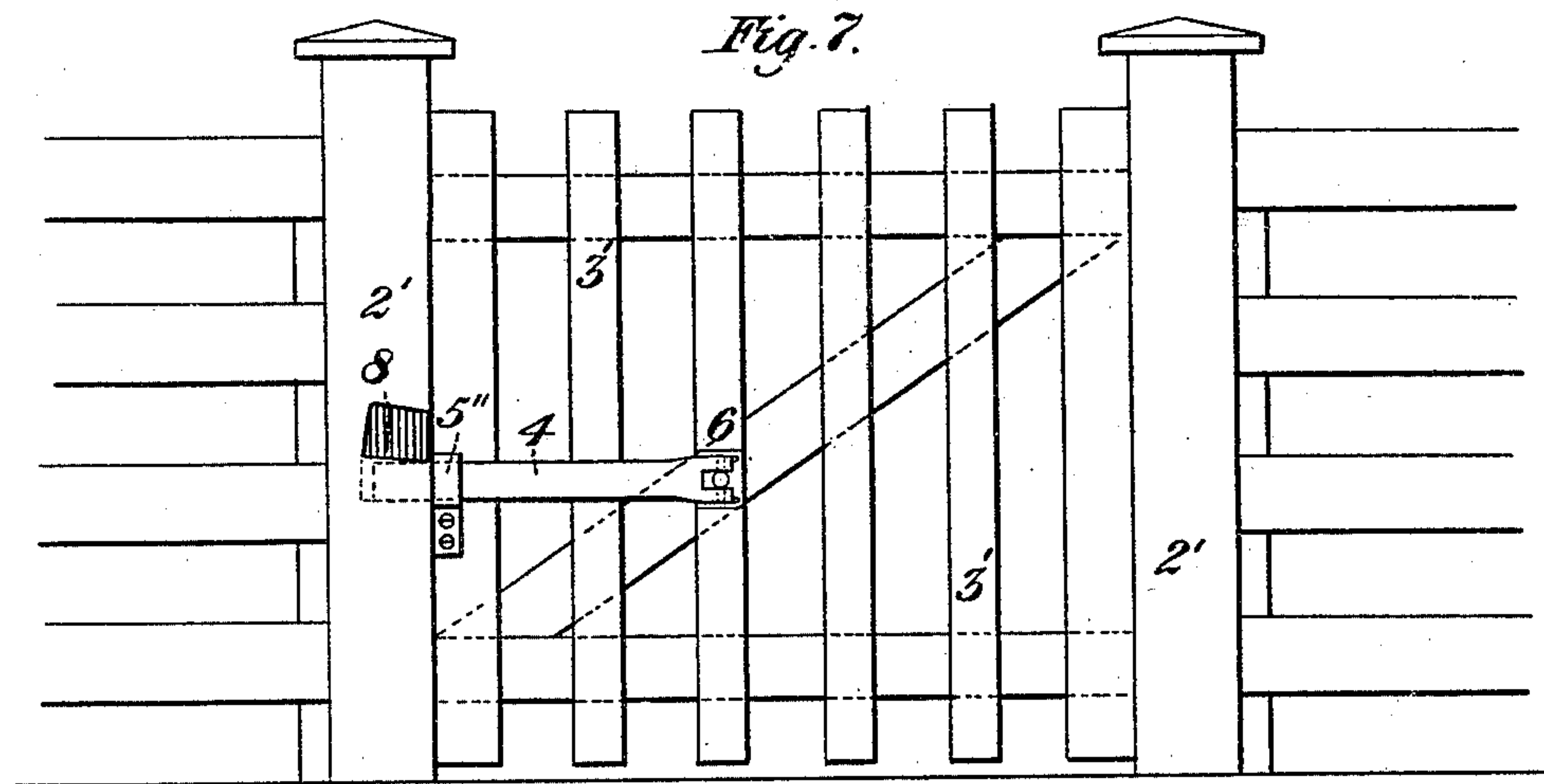
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WITNESSES.

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UNITED STATES PATENT OFFICE.

COCHRAN FLEMING, JR., OF SEWICKLEY, PENNSYLVANIA, ASSIGNOR TO
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GATE OR DOOR FASTENING.

SPECIFICATION forming part of Letters Patent No. 462,909, dated November 10, 1891.

Application filed March 14, 1891. Serial No. 385,121. (No model.)

To all whom it may concern:

Be it known that I, COCHRAN FLEMING, Jr., of Sewickley, county of Allegheny, State of Pennsylvania, have invented or discovered a new and useful Improvement in Gate or Door Fasteners; and I do hereby declare the following to be a full, clear, concise, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—like letters indicating like parts—

Figure 1 is a front elevation of a pair of doors provided with my improved fastener. Fig. 2 is a similar view showing the doors unbarred and with one of them standing partly open and held so by the bar, which serves as a prop. Fig. 3 is a front elevation showing a modified arrangement of the hasps. Fig. 4 is a still further modification showing the bars as used in connection with a center post. Fig. 5 is a vertical section on the line V V of Fig. 4. Fig. 6 is a horizontal section on the line VI VI of Fig. 4. Fig. 7 is a front elevation of a single gate, showing my improved fastening and bar in connection with a side post. Fig. 8 is a sectional detailed view on a large scale of my improved universal joint used herein. Fig. 9 is a similar view showing a modified adjustment of this same joint. Fig. 10 is a face view of the front plate used in the modified form of joint, as shown in Fig. 9.

The object of my improvement is to provide a fastener for gates or doors which shall combine the functions of a bar for strengthening and holding the gates or doors in position when closed, and which also will drop to the ground or floor and act as a prop to hold the gate or door in position when opened either altogether or in part; and to this end it consists in the provision of suitable bars adapted to rest in brackets or hasps at one end and at the other end secured to the gate or door by means of a universal joint which permits the bar to have a double movement and allows it to take any required position either as a prop or as an ordinary bar.

In order to more clearly describe my improvement, I will refer to the drawings, in which 2 represents the frame of the doors or

gates, and the doors or gates themselves are represented by 3, except in Fig. 7, which shows a single gate, where the posts are represented by 2', and the gate by 3'.

What may be called the "combined bar and prop" is represented at 4. When the gates are closed, this bar and prop is secured in position by the brackets or hasps 5 and is fastened at its other end to the gate or door by means of the universal hinge or joint 6.

It may in some situations seem desirable to use a center post upon which the gates may close, and such a modification is shown at Fig. 4, and the center post is shown at 7. In this center post is a socket 8 for securing the bar 4.

In Figs. 8 and 9, which are enlarged detail views of the universal joint or hinge, the center bolt of the hinge is shown at 9, this center bolt being secured between the plates 11 and 12 and the washer 13. The center bolt also has bearing against shoulders 16 16. The bar 4 is secured to the center bolt of the hinge by means of the pin 10.

In Fig. 9 is shown a form of the universal joint which is adapted to heavy gates or doors where a double thickness is used. The center bolt of the hinge is represented by 9, secured between plates 11' and 12', and the back plate 11' is provided with an internal thread 17, and the front plate 12' has an inwardly-projecting screw-threaded bushing 15, which is screwed into plate 11', securing the center bolt 9. When the plates are properly adjusted, the locking-screw 14 is driven in, thus holding the plate 12' securely in its position.

The operation of my improvement is apparent from an inspection of the drawings. In the form shown in Figs. 1 and 2 the gate when closed has the bars in position, as shown in Fig. 1, with the bar resting in brackets 5. I deem it best when this form is used to use double brackets or rather a bracket for each bar upon each gate, as shown in the figure. When the gates are opened, which is done by simply lifting the bars out of the brackets and letting them fall, the bars will naturally take the position shown in Fig. 2. The points of the bars should be made sufficiently sharp to catch in the ground or on the floor, and thus

act as a prop to prevent the door from closing until desired.

I have shown at Fig. 3 another way of fastening the bars, in which two brackets only are used, one on each of the heavy gates and designated as 5'. In this form the gates are fastened by dropping one bar into the brackets and then the other bar into the same brackets on top of the first bar.

10 In Fig. 4 I have shown a modified form of construction adapted to the use of a center post. This center post is shown in section at Fig. 5, where a socket 8 is cut in the post for the admission of the bars 4, which are held in
15 place by this socket in connection with the brackets shown at 5 in Fig. 4. These various forms of construction can be used as they may be most convenient or best adapted to the circumstances of the user. In all these
20 forms of construction I make use of the same universal joint which is shown in detail in Fig. 8. This universal joint or hinge has a center bolt 9, which turns upon its own axis. The position in which the bar is fastened to
25 the gate or door as regards height or distance from the bottom will depend upon the conformation of the ground and the length of the bar used. It should be made just high enough to easily reach to the ground and

assume the proper position when in use as a prop.

Having thus described my improvement, I claim herein and desire to secure by Letters Patent of the United States—

1. In connection with a gate or door, a fastener consisting of a bar attached to said gate at one end thereof by a universal joint consisting of a center bolt 9, turning upon its axis within the plates 11 and 12 and attached to the bar 4 by means of pin 10, running transversely through the center bolt 9, the whole arranged and operating substantially as and for the purpose specified.

2. The improved fasteners for gates or doors, consisting of bar 4, attached at one end to the gate or door by means of universal joint 6, arranged to be secured in position transversely of the gate or door when closed by means of hasps 5 and to act as a prop when the gate is open, substantially as shown and described.

In testimony whereof I have hereunto set my hand.

COCHRAN FLEMING, JR.

Witnesses:

W. B. CARSON,
HOMER L. CASTLE.