

(No Model.)

2 Sheets—Sheet 1.

R. K. BALL.
GATE.

No. 578,709.

Patented Mar. 16, 1897.

Fig. 1.

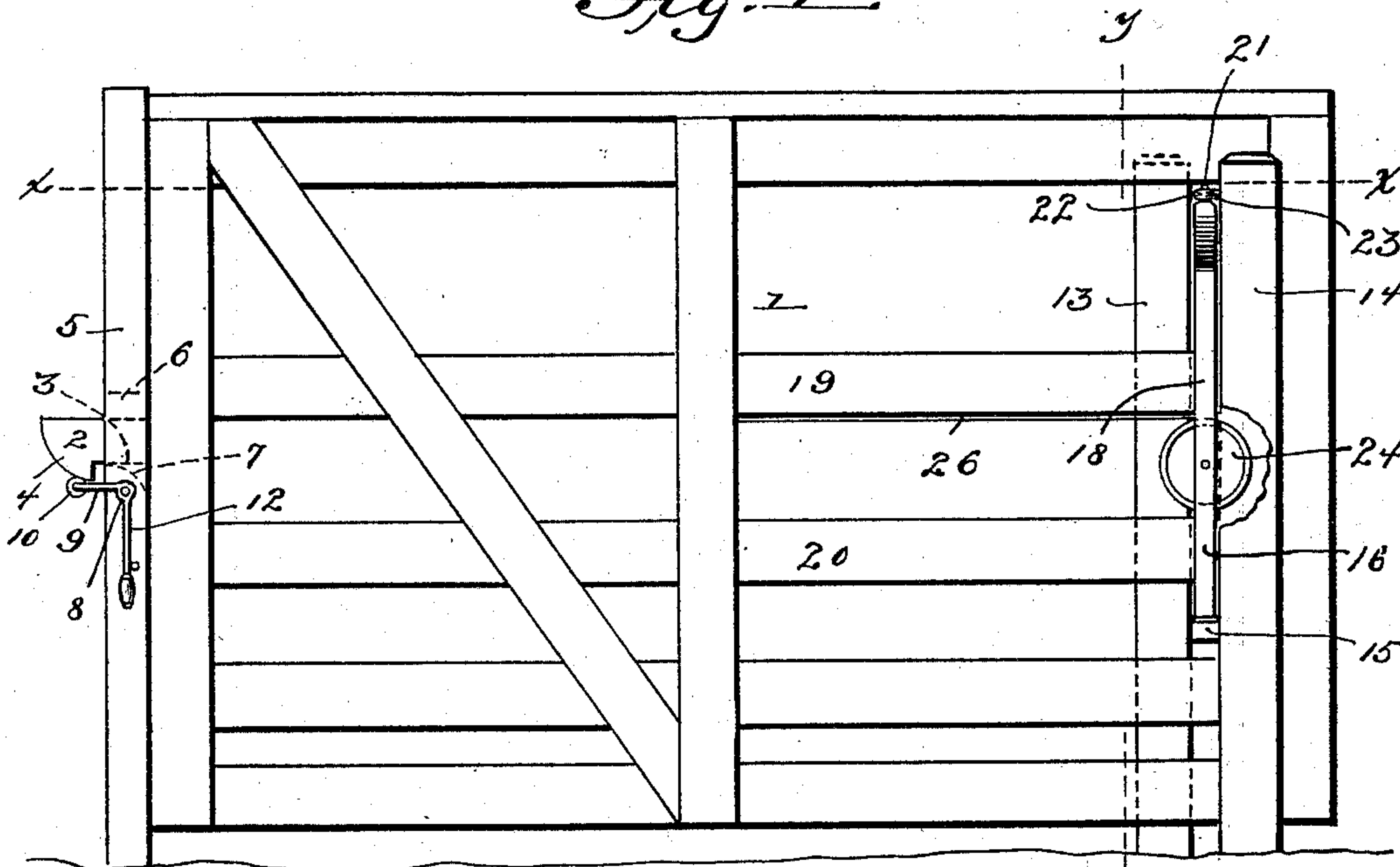


Fig. 4.

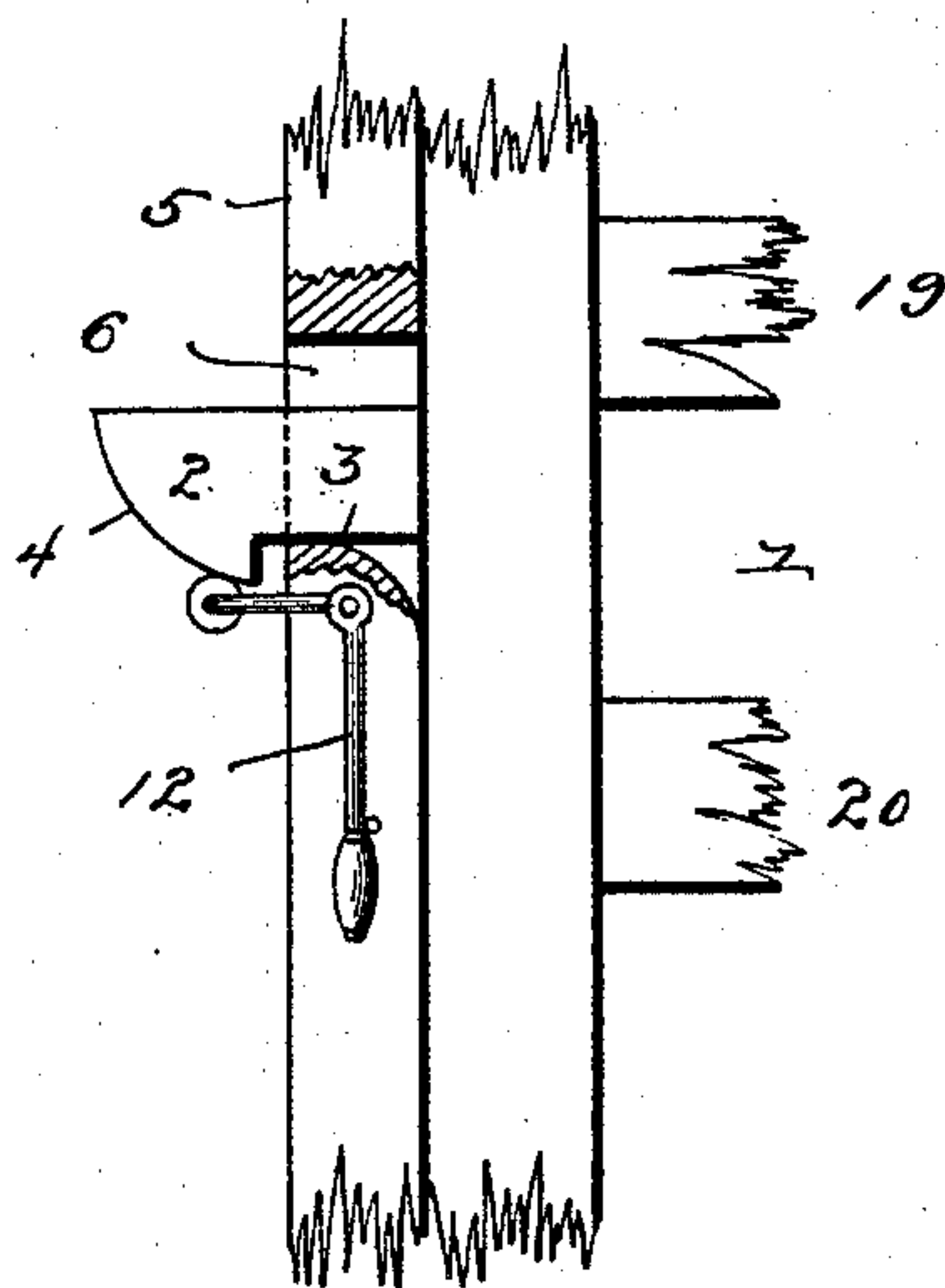
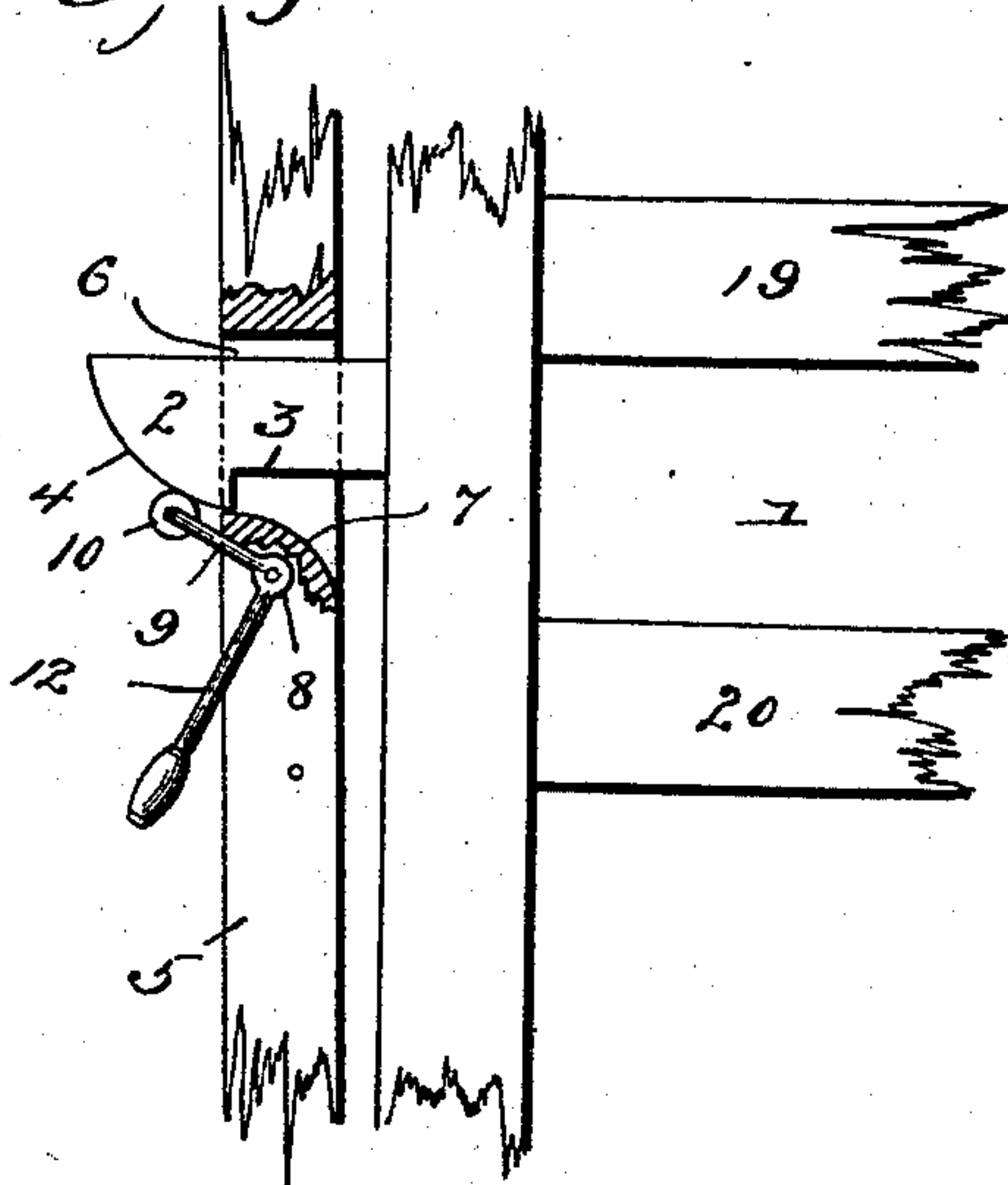


Fig. 5.



Witnesses

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Fig. 2.

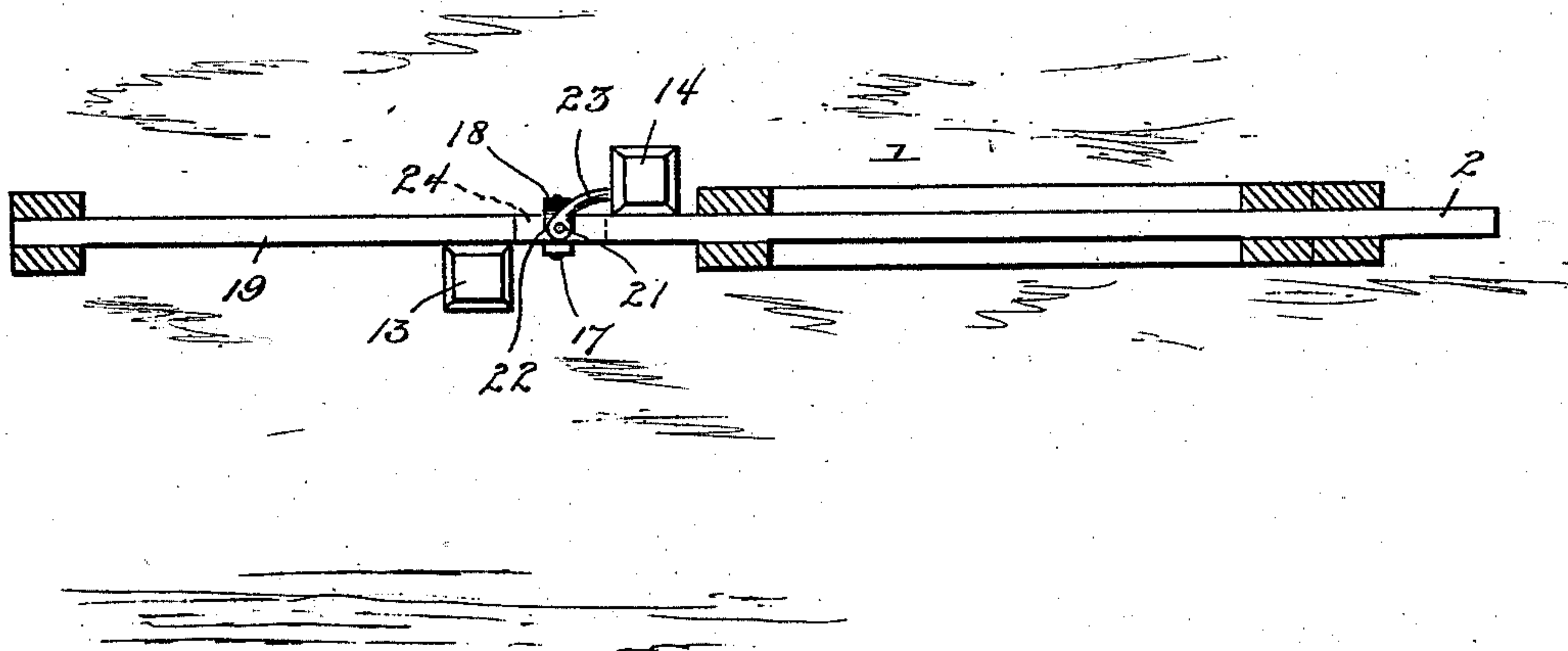
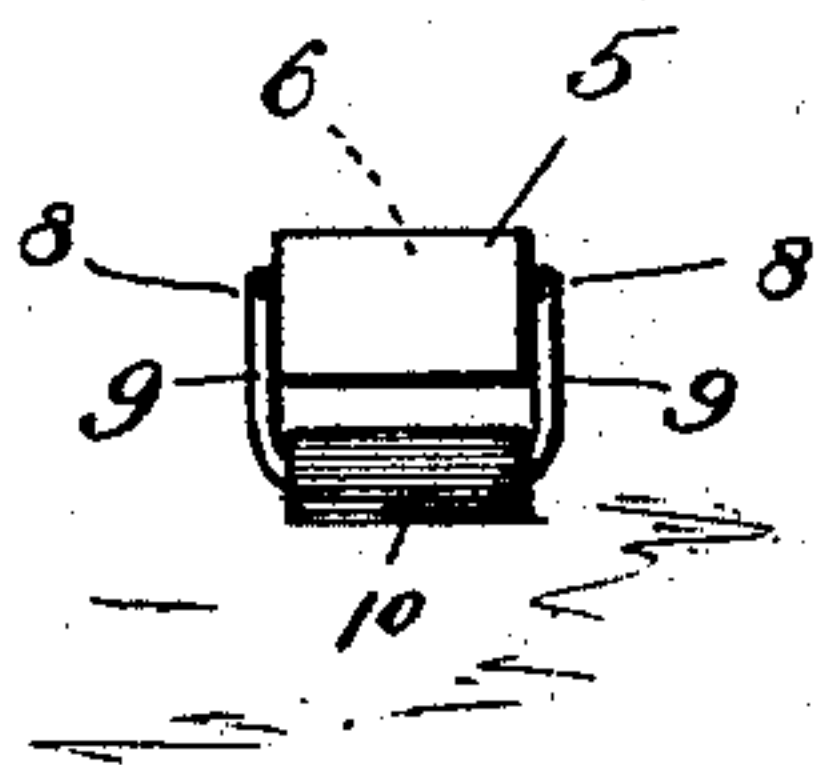
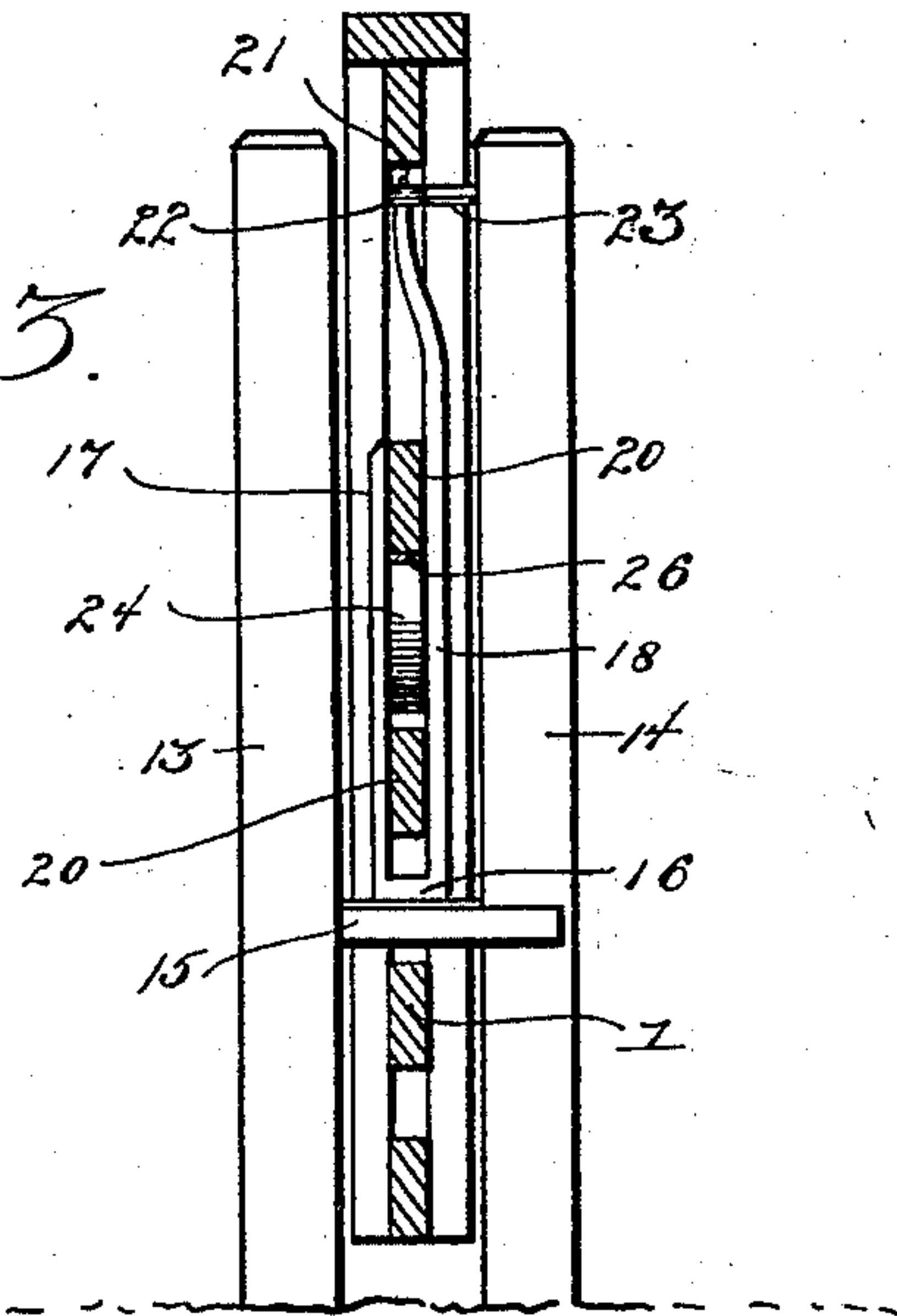


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

REUBEN K. BALL, OF CLAYPOOL, INDIANA.

GATE.

SPECIFICATION forming part of Letters Patent No. 578,709, dated March 16, 1897.

Application filed October 28, 1896. Serial No. 610,327. (No model.)

To all whom it may concern:

Be it known that I, REUBEN K. BALL, a citizen of the United States, residing at Claypool, in the county of Kosciusko and State of Indiana, have invented certain new and useful Improvements in Gates; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in the construction of gates; and the object is to provide a simple, durable, and convenient gate for general use; and to this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed in the claims.

In the accompanying drawings the same reference-numerals indicate the same parts of the invention.

Figure 1 is a perspective view of my improved gate as it appears in use. Fig. 2 is a top plan view on the line *xx* with the gate open. Fig. 3 is a vertical sectional view on the line *yy*. Fig. 4 is a sectional view showing the gate-fastening, and Fig. 5 is a similar view showing the manner of releasing it.

1 represents an ordinary panel gate, the forward end of which is provided with a rigid bar 2, having a recess 3 and a beveled or rounded end 4.

5 represents a post provided with a longitudinal slot 6 to receive the bar 2, and that part 7 of the post forming the bottom of said slot is also beveled inwardly and downwardly toward the gate to facilitate its closure.

8 represents a bell-crank lever fulcrumed on the post 5, and its horizontal arm 9 is provided with a roller 10, which rests under the edge 4 of the bar 2, so that by pressing the vertical arm 12 of the lever 8 outwardly from the gate the roller 10 raises the bar 2 upwardly, so that its recess 3 will clear the bottom of the slot 6 in the post 5, and the beveled edge 4 of the bar 2 will ride backward on the roller 10 to clear the post 5.

13 and 14 represent posts rigidly fixed on opposite sides of the gate 1, the post 13 being set in advance of the post 14 and in such a

position that while the gate may slide freely between them longitudinally it may also be swung at a right angle or transversely to the line of fencing, as shown in Fig. 2.

15 represents a cross-brace secured to and bracing the posts 13 and 14, and on this brace is pivoted the lower end of a vertical bracket 16, the parallel arms 17 and 18 of which extend upwardly on opposite sides of the gate to form guides for the bars 19 and 20. The longer arm 18 terminates in a spindle 21, which is journaled in the socket 22 of an arm 23, rigidly secured in the post 14.

24 is a friction-roller mounted between the parallel arms 17 and 18, and it forms a bearing for the bar 19 of the gate to ride freely on, and when the gate has been partly opened it may then be swung around, carrying the bracket 16 and roller 24 with it, leaving a clear space for the passage of teams between the posts 5 and 13, as shown in Fig. 3.

In practice I prefer to secure a metallic strip 26 on the under side of the bar 19, which forms a bearing or rail to support the weight of the gate on the roller 24, and as this is the only part that is liable to wear the durability of the gate is prolonged indefinitely.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A gate comprising the posts 13 and 14, the cross-brace 15 connecting said posts, the vertical bracket 16, its lower end pivotally supported on said brace, and having the upper end of one of its parallel arms terminating in a spindle 21, journaled in the arm 23 rigidly secured to the post 14, and the friction-roller 24 mounted between the parallel arms of said bracket 16, the gate-panel 1, its bar 19 having a longitudinal bearing on said friction-roller, and provided with the rigid bar 2, having recess 3 and beveled end 4, the

post 5 formed with the longitudinal slot 6 and the lever 8 fulcrumed on said post and provided with the transverse horizontal roller 10 and the integral handle 12, substantially
5 as and for the purpose set forth.

2. The combination with the gate-panel 1 provided with the rigid bar 2 having recess 3 and beveled end 4, of the post 5 provided with slot 6, and the lever 8 fulcrumed on said

post and provided with the roller 10, substantially as and for the purpose set forth.

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

REUBEN K. BALL.

Witnesses:

ALVIN A. MENDEL,
J. P. THOMA.