B. J. CAMPBELL.

GATE.

APPLICATION FILED FEB. 28, 1910.

976,119.

Patented Nov. 15, 1910.

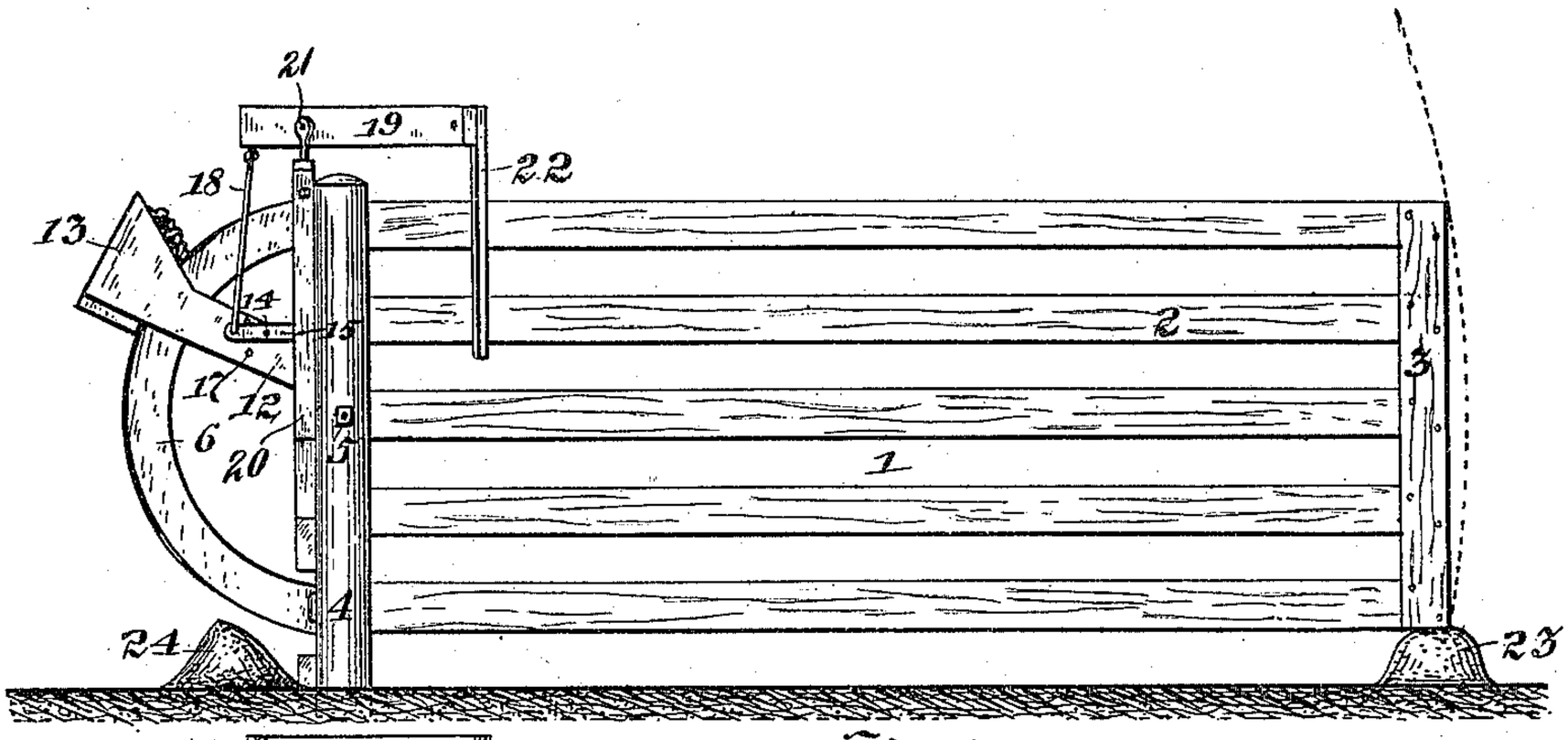

Fig. 1.

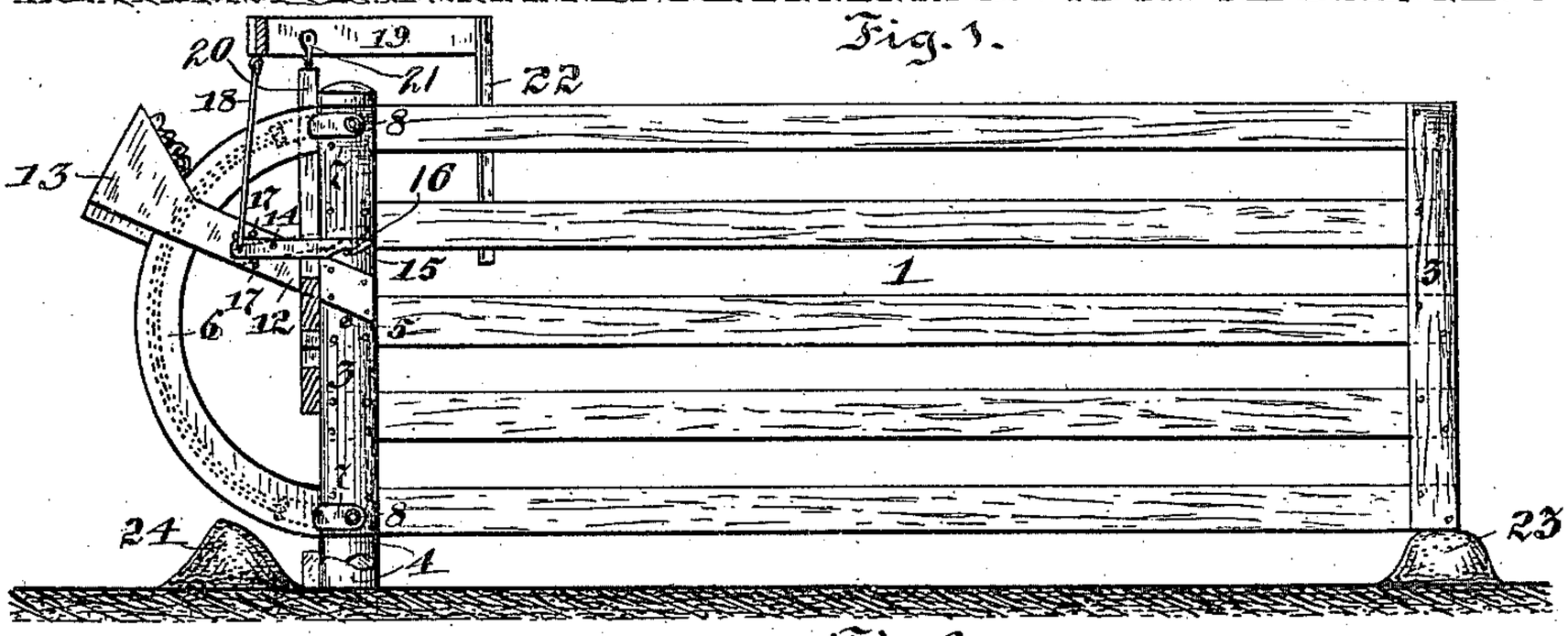

Fig. 2.

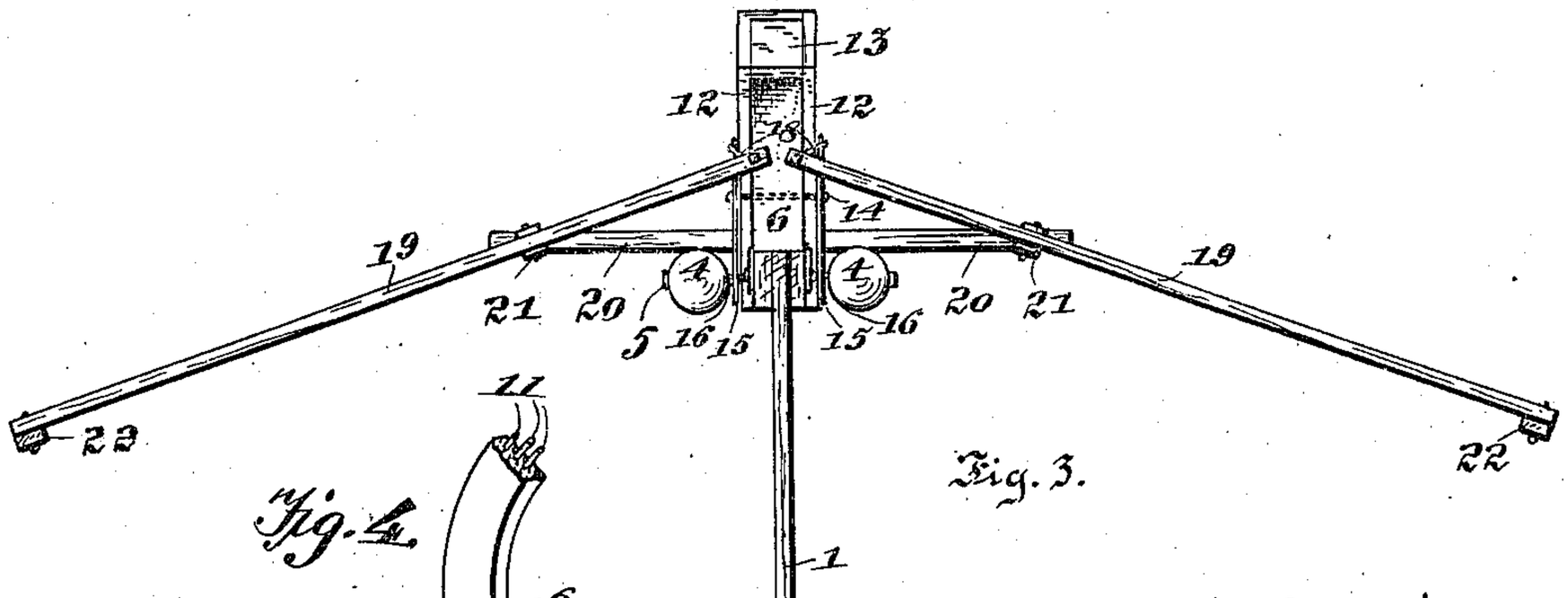

Fig. 3.

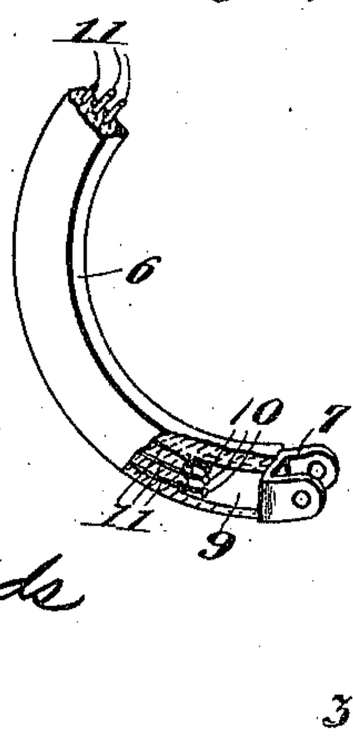

Fig. 4.

Witnesses

W. C. Smith

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UNITED STATES PATENT OFFICE.

BARTLEY J. CAMPBELL, OF JOLIET, ILLINOIS.

GATE.

976,119. Specification of Letters Patent. Patented Nov. 15, 1910.

Application filed February 28, 1910. Serial No. 546,353.

To all whom it may concern:

Be it known that I, BARTLEY J. CAMPBELL, a citizen of the United States, residing at Joliet, county of Will, and State of Illinois, have invented certain new and useful Improvements in Gates, of which the following is a specification.

My invention relates to improvements in gates and has for its object the production of a gate which shall be of simple and economical construction and efficient in its operation.

The invention consists in the combination and arrangement of parts hereinafter fully described and more particularly pointed out in the appended claims.

The invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is an elevation of a gate embodying my invention, Fig. 2, a sectional elevation of the same, Fig. 3, a partial top plan view of the gate, Fig. 4, a partial perspective view of the balancing weight with portions broken away.

The preferred form of construction as illustrated in the drawings comprises a gate 1 composed of longitudinal bars 2 secured together by means of end pieces 3 placed on either side thereof. Gate 1 is pivoted between posts 4 on a pivot bolt 5 to swing vertically. A semi-cylindrical concrete balancing weight 6 is secured to the gate at top and bottom by means of yokes 7 which embrace the end pieces 3 thereof and bolts 8 which pass therethrough. Yokes 7 are embedded in the ends of weight 6 and are provided with inwardly extending flanges 9 having holes or perforations 10 therein. Reinforcing and securing wires 11 having their ends passed through said openings 10 are also embedded in weight 6 and serve to reinforce the same as well as anchor the yokes 7 in position. Upwardly and outwardly extending members 12 are secured to end members 3 at either side of the gate and are extended slightly beyond the periphery of weight 6 where they are provided with a receptacle 13 adapted to receive supplemental weight material such as bricks, stone, sand, earth, etc. A latch shaft 14 is rotatably mounted in members 12 and carries at either end a latch bar 15 fixed thereto. Studs 16 projecting inwardly from the inner sides of posts 4 are adapted to coöperate with latch bars 15 to automatically lock gate 1 in closed position. Stop pins 17 secured to members 12 on either side of latch bars 15 serve to limit the movements of said latch bars to that necessary for engagement or disengagement from studs 16. The end of each of the latch bars 15 is connected by means of a link 18 with the inner end of the operating lever 19 positioned to be readily operated from a vehicle or horse on the roadway at either side of said gate. Levers 19 are supported on upwardly extending supports 20 secured to posts 4 and provided at their upper ends with pivoted yokes 21 in which said levers are pivoted. At their outer ends levers 19 carry pendants 22 to facilitate their operation. Mounds of earth 23 and 24 are preferably provided for supporting the free end of the gate and for contacting with the receptacle 13 to limit the opening swing thereof.

In use with the gate in the position illustrated in Figs. 1 and 2, the same is opened by elevating the outer end of either of the levers 19. The first motion of said lever rocks both of the latch bars 15 to disengage them from studs 16 whereupon the movement of said latch bars is interrupted by the lowermost stop pin 17 and the gate caused to swing vertically by further elevation of the outer end of said lever. Receptacle 13 contacting with mound 24 will stop the upward swing of the gate without material jar. To close the gate the outer end of one of the levers 19 is depressed whereupon said gate is caused to swing to closed position, the latch bars 15 automatically engaging with studs 16 to secure it in that position, the mound 23 serving to check this closing movement without material jar.

While I have illustrated and described the preferred construction for carrying my invention into effect this is capable of variation or modification without departing from the spirit of my invention. I therefore do not wish to be limited to the exact details of construction set forth but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A gate counterweight comprising a semi-annular concrete body provided at its ends with U-shaped metallic securing mem-

bers embedded therein and having their limbs projecting from said ends to embrace a gate member, the said securing members being connected by wires also embedded in said concrete body, substantially as described.

2. A gate counterweight comprising a semi-annular concrete body provided at its ends with U-shaped metallic securing members embedded therein and having their limbs projecting from said ends to embrace a gate member, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of subscribing witnesses.

BARTLEY J. CAMPBELL.

Witnesses:
JOSHUA R. H. POTTS,
MARTHA LEU,
ARTHUR A. OLSON.