

(No Model.)

C. CARDWELL.
GATE.

2 Sheets—Sheet 1.

No. 476,127.

Patented May 31, 1892.

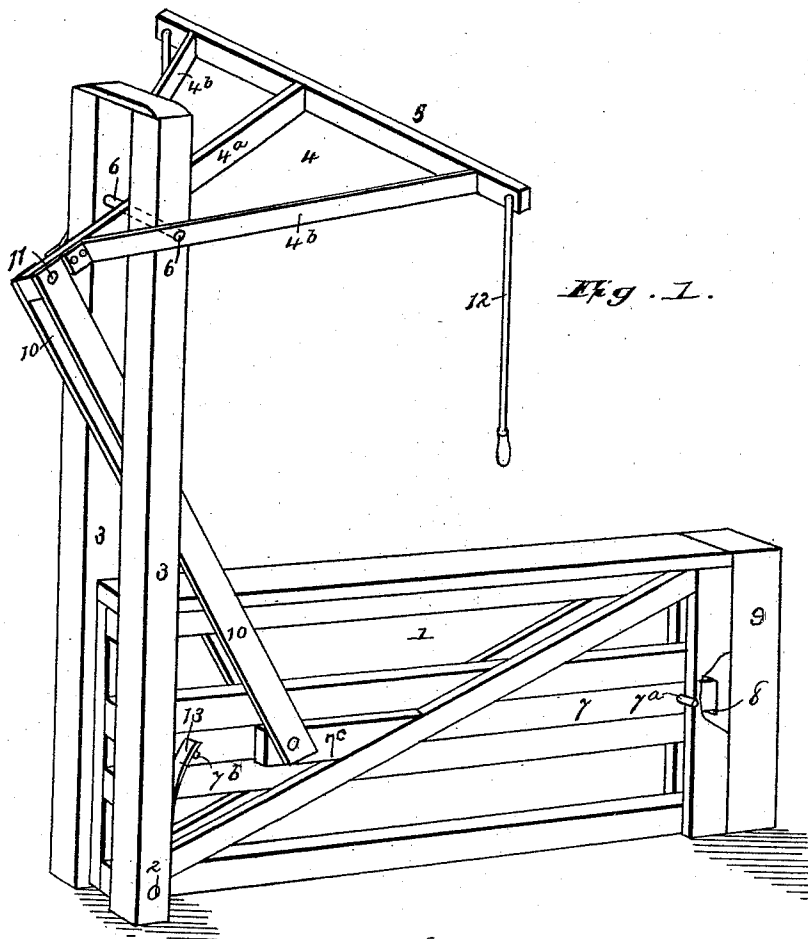


Fig. 1.

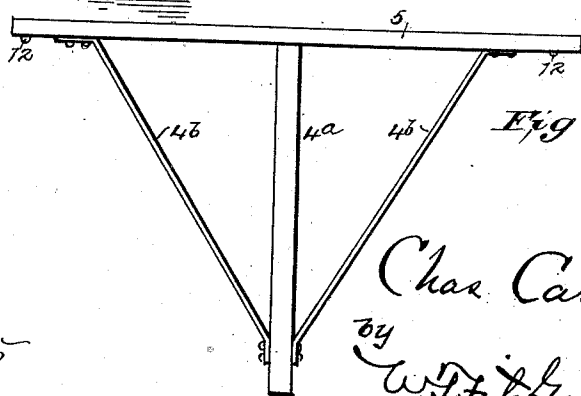


Fig. 2.

Witnesses
A. J. Schwartz
C. S. Rye

Chas. Cardwell,
Inventor:
by
W. T. Fitzgerald & Co.
Attorneys.

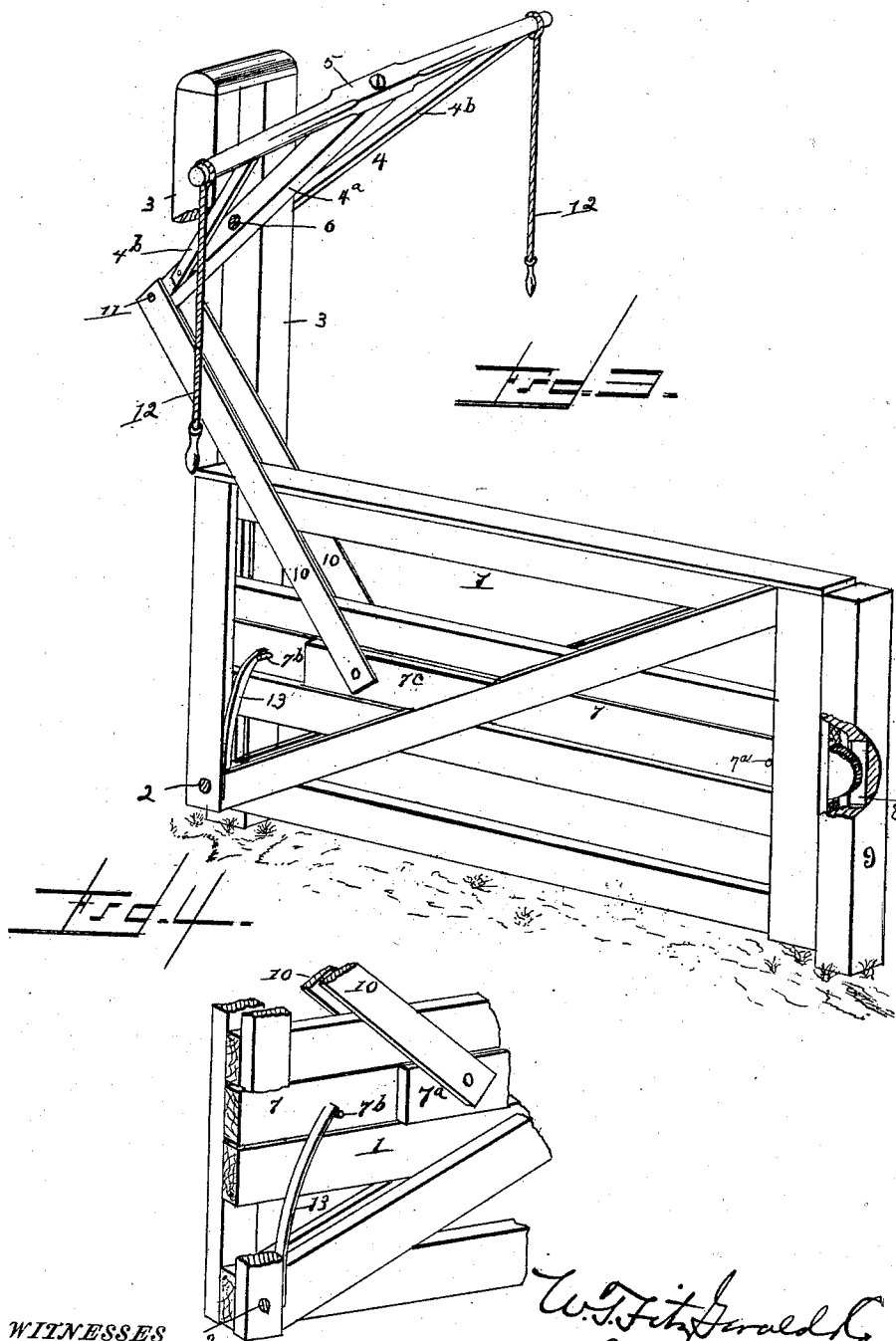
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GATE.

2 Sheets—Sheet 2.

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WITNESSES
C. S. Frye
E. E. Lodge

W. T. Fitzgerald & Co.
Attorneys for
Charles Cardwell,
Inventor.

UNITED STATES PATENT OFFICE.

CHARLES CARDWELL, OF COMMERCIAL POINT, KENTUCKY.

GATE.

SPECIFICATION forming part of Letters Patent No. 476,127, dated May 31, 1892.

Application filed May 6, 1891. Renewed April 19, 1892. Serial No. 429,705. (No model.)

To all whom it may concern:

Be it known that I, CHARLES CARDWELL, a citizen of the United States, residing at Commercial Point, in the county of Union and State of Kentucky, have invented certain new and useful Improvements in Gates; and I do hereby 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 consists in a new and improved tilting gate of that class which is so constructed that a person approaching the gate from either side on horseback or riding in a vehicle or on foot can by pulling on a cord that hangs within convenient reach open the gate, which swings up out of the way and can be as readily closed after the person passes through the gateway by pulling on another cord, operating to swing the gate down into its closed position; and my invention will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a perspective view illustrating my new and improved tilting gate. Fig. 2 illustrates in detail the V-shaped frame, hereinafter described, and its connections. Fig. 3 is a perspective view of the gate, taken from a different position to that shown in Fig. 1. Fig. 4 is a perspective detail of the spring 13 and the sliding latch 7.

The same numerals of reference indicate corresponding parts in all the figures.

Referring to the several parts by their designating-numerals, 1 indicates the swinging or tilting gate, the rear lower corner of which is pivoted on a pivot-bolt 2 between two parallel vertical posts 3. Between the upper ends of the parallel posts 3 is pivotally mounted the V-shaped frame 4. This triangular frame 4 is formed with the straight central bar 4^a, which extends between the vertical posts 3 and inclined side pieces 4^b 4^b and a transverse bar 5, which is secured at its center to the inner end of the bar 4^a, the diverging ends of the inclined pieces 4^b being secured to the transverse bar 5 near the ends of the same, as shown, so that the general outline of the frame resembles that of a large letter V. The V-shaped frame 4 is pivoted on a transverse bolt 6 between the upper ends of the parallel posts 3 at a point about

one-third the distance from its point or narrow end.

7 indicates the sliding latch of the gate, the outer end of which normally engages in a notch 8 in the latch-post 9. The longitudinal latch extends between two of the bars of the gate and is formed with the stops 7^a, which, in connection with the block 7^c, limit its forward movement. The blocks 7^c are placed on either side of the sliding latch at that point thereof to which the rods 10 10 are connected for the purpose of separating said rods that they may not come in contact with the upper part of the gate. Said blocks also check the outward movement of the latch in case the stop 7^a is dispensed with.

13 indicates a spring, which is fixed at its lower end to the gate, so that its free upper end bears against a pin 7^b, projecting from the inner end of the sliding latch 7, throwing the latch normally outward.

10 10 indicate two flat connecting-rods, the lower ends of which are pivoted to the sliding latch near the rear end of the same, while their upper ends are pivoted to the outer end of the V-shaped frame 4 by a pivot-bolt 11. To the ends of the bar 5 are secured cords or ropes 12, the lower ends of which may be provided with suitable and convenient knobs or hand-grasps.

It will now be seen that when a person approaches the gate from either side on horseback, in a vehicle, or on foot and pulls upon the cord 12 on that side, the first effects of the pull will be to draw the sliding latch back against the tension of its spring 13, clearing its outer end from the catch 8, and as the pull continues the gate 1 will be swung up and back, so as to stand on its pivoted end, leaving the gateway clear. When the traveler passes through the gate, it is only necessary to pull on the other cord 12 to swing the gate down into its closed position, the pivoted V-frame 4 acting in conjunction with the pivoted connecting-bars 10 to open and close the gate.

The V-shaped frame 4 is formed of wood, and the two flat connecting-rods 10 are preferably formed of metal, thus balancing the several parts of the gate, so that a pull of about twenty or twenty-five pounds on either of the cords 12 will swing the gate open and

it will only require a light pull of about five or ten pounds to swing the gate into its closed position, which is a decided practical advantage and which will be readily understood.

5 From the foregoing description, taken in connection with the accompanying drawings, it will be seen that my new and improved tilting gate is simple, strong, and durable in its construction and exceedingly effective, convenient, light, and satisfactory in its operation. The V-shaped frame 4, with its pointed
10 outer end and wide inner end, affords a peculiarly effective pivotal connection for the connecting-rods 10 and the transverse bar 5, as will be clearly seen.

15 Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a tilting gate, the combination of the
20 parallel posts 3, the gate pivoted at its rear lower corner between the same, the V-shaped frame 4, pivoted at the upper ends of the parallel posts 3, the pivoted connecting-rods ex-

tending between the gate and the pointed outer end of the said frame, and the transverse bar 5, bolted to the wide end of the V-frame and having the end cords 12, substantially as set forth. 25

2. The combination, with the latch-post having the notch 8 and the parallel posts 3, of the gate 1, pivoted at its lower rear corner between the posts 3, the sliding latch 7, the spring 13, bearing against the rear end of the said latch, the V-frame 4, pivoted at the upper ends of the posts 3, the pivoted connecting-rods 10, arranged as specified, and the transverse bar 5, bolted to the wide end of the V-frame and having the end cords 12, substantially as set forth. 35

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

CHARLEY CARDWELL.

Witnesses:

ED. BOWERS,
HOMER PROBASICO.