

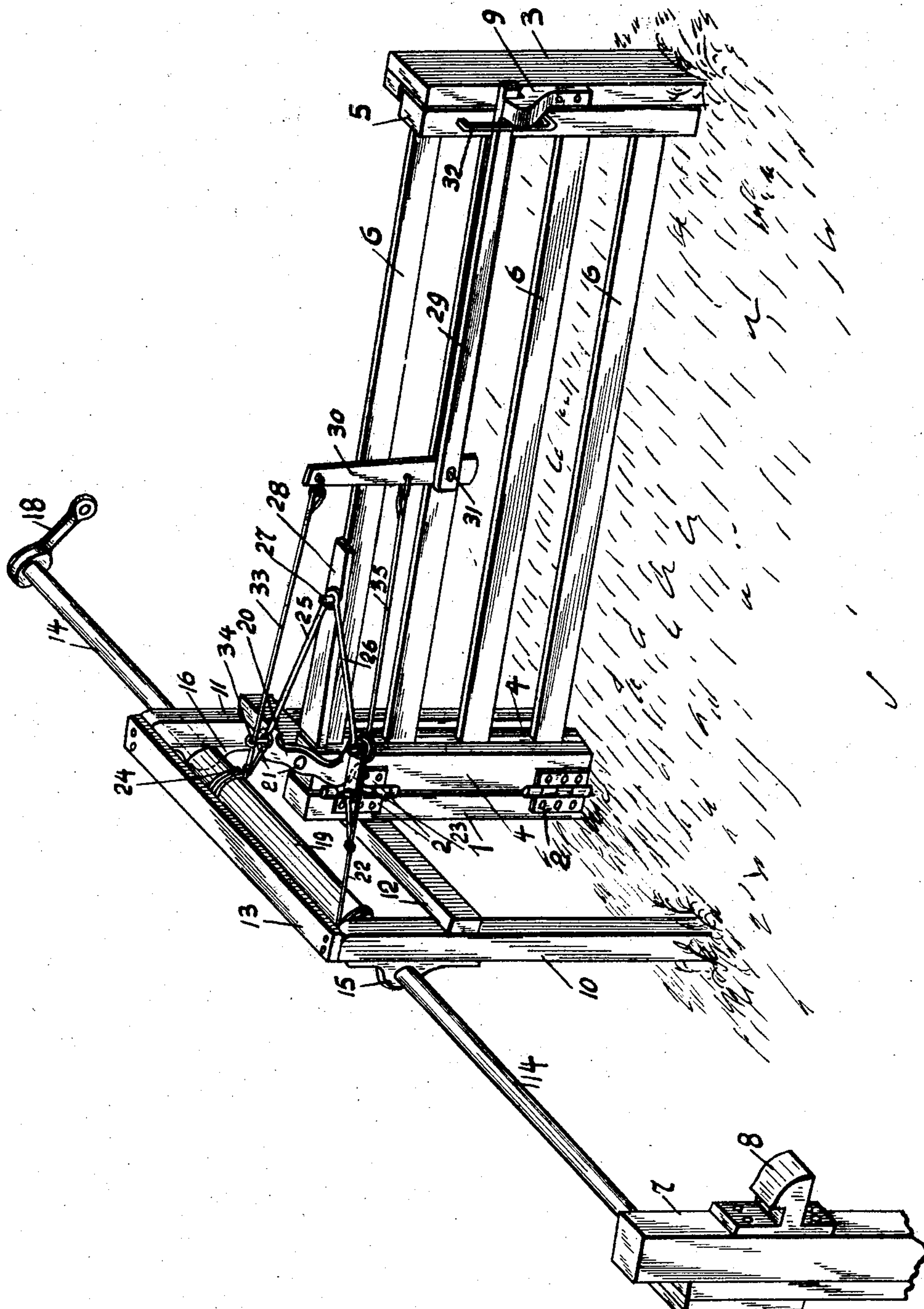
No. 765,072.

PATENTED JULY 12, 1904.


A. Y. FRY.
GATE.

APPLICATION FILED APR. 30, 1904.

NO MODEL.



Witnesses.
C. Klostermann.
E. E. Potter.

 Inventor.
W. J. Fry.
by A. C. Everett & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

ALBERT Y. FRY, OF GALLATIN, TENNESSEE.

GATE.

SPECIFICATION forming part of Letters Patent No. 765,072, dated July 12, 1904.

Application filed April 30, 1904. Serial No. 205,720. (No model.)

To all whom it may concern:

Be it known that I, ALBERT Y. FRY, a citizen of the United States of America, residing at Gallatin, in the county of Sumner and State of Tennessee, have invented certain new and useful Improvements in Gates, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention has relation to gates, is particularly applicable to farm-gates, and has for its object the provision of a gate of novel form and construction that may be unlatched and opened and may be closed by a person on horseback or in a vehicle approaching the gate without dismounting or descending from the vehicle; and the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described and claimed.

I have illustrated my invention in a single figure in the accompanying drawing, and, referring to the drawing, 1 designates one of the gate-posts, upon which the gate is hung by means of hinges 2 2. 3 designates the other gate-post, the gate-posts being located, as usual, upon opposite sides of the road and being of any desired character and composed of wood, iron, or other suitable material.

The gate is composed of the vertical bars 4 4 and 5 and horizontal bars 6. A supplementary post 7 is located at one side of the road at such distance from the post 1 that the gate when swung around into its fully-opened position will contact with post 7, the latter being provided with a keeper 8 to engage a latch on the gate when the gate is opened and the post 3 being provided with a keeper 9, which engages the latch on the gate when the latter is closed.

A framework consisting of vertical posts 10 11 and the cross-bars 12 13 is erected in the rear of the post 1, and a horizontal crank-shaft 14 is journaled in bearings 15 16, carried on the posts 10 11, and is also journaled in a bearing 17, arranged on the back of the post 7. The crank-shaft 14 carries on each end a crank 18, and a roller 19 is carried by the crank-shaft between the posts 10 11. The crank-shaft and the roller 19 are preferably composed of gas-pipe of suitable size; but

they may, if desired, be made of any other suitable material. A curved arm 20 is secured at 21 upon top of the vertical bars 4 4 of the gate, and a chain or wire cable 22 is wound upon the roller 19 and is attached to a link 23, that is pivotally secured on one end of the curved arm 20, while a similar cable 24, which is also wound around the roller 19, but in the reverse direction to the cable 22, is attached to the other end of the arm 20. The arm 20 is held rigid by brace-rods 25 26, the outer ends of which are secured to a pin 27, projecting upwardly from the bar 28 upon the top of the gate.

A latch 29, that carries a vertical arm 30, is pivoted at 31 to one of the horizontal bars of the gate, the said latch being guided in a staple 32 on the vertical bar 5 and engaging with keeper 9 when the gate is closed and with the keeper 8 when the gate is open. A wire 33 connects the vertical arm 30 with the chain or cable 24, passing through an eye 34 upon the end of the arm 20, and a wire 35 similarly connects the arm 30 with the chain or cable 22.

The gate constructed as above described is operated as follows: It being understood that the crank-shaft 14 extends a sufficient distance beyond the gate to permit of a person in a vehicle grasping the handle 18 at either end of the shaft, while the horse is a sufficient distance from the gate to permit the latter to open, when the crank-shaft 14 is turned the chain or cable 22 will be wound upon the roller 19, the first movement of the chain or cable drawing on the wire 35 and lifting the outer end of the latch out of engagement with the keeper 9 and post 3. The continuation of the movement of the roller will cause the chain or cable to pull the arm 20 toward the roller and open the gate, the latch when the gate has been fully opened engaging with the keeper 8 on post 7. After the gate has been opened as described and the person has passed through the gate is closed by grasping the crank 18 on the other end of the shaft 14 and turning the crank in the opposite direction to that required to open the gate. The chain or cable 24 will now be wound around the roller, the first movement of the chain or cable serv-

ing to raise the latch out of engagement with the keeper 8 and the continuation of the movement of the roller causing the chain or cable 24 to pull on the arm 20 and close the gate, whereupon the crank-shaft being released the latch will fall of its own weight into the keeper 9 and lock the gate.

The chains or cables 22 24 are, it will be observed, wound upon the roller 19 in opposite directions, so that as one of these chains or cables is wound up the other will be unwound, thus allowing the gate to be opened and closed by a person coming toward the same from either direction.

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

1. The combination with a swinging gate, of a crank-shaft journaled adjacent to the gate, a roller carried by said crank-shaft, two chains or cables wound on said roller in opposite directions, one on each side of the gate, a bar rigidly fixed upon and extending across the gate, a link pivotally attached to one end of said bar, one of said chains or cables being attached to one end of said bar and the other of

said chains or cables being attached to said link.

2. The combination with a hinged gate, a post on which said gate is supported, a post arranged at the free end of the gate, a keeper on said last-named post, a latch pivoted to the gate and carrying a vertical arm, and an arm fixed on top of the gate and carrying a pivoted link on one end, of a frame arranged adjacent to the gate, a crank-shaft journaled on said frame, a roller carried by said crank-shaft, cranks on the end of the same, flexible connections attached one to the arm on the gate the other to the link on the opposite end of said arm and connected to said roller and adapted to be wound upon the roller in opposite directions, accordingly as the same is moved in one direction or the other, and separate connections between said flexible connections and said vertical arm.

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

ALBERT Y. FRY.

Witnesses:

ALBERT MITCHELL,
JAMES W. BRACKIN.