No. 865,577. PATENTED SEPT. 10, 1907.

B. S. EDWARDS.

GATE.

APPLICATION FILED JAN. 19, 1906.

Fig. 1.

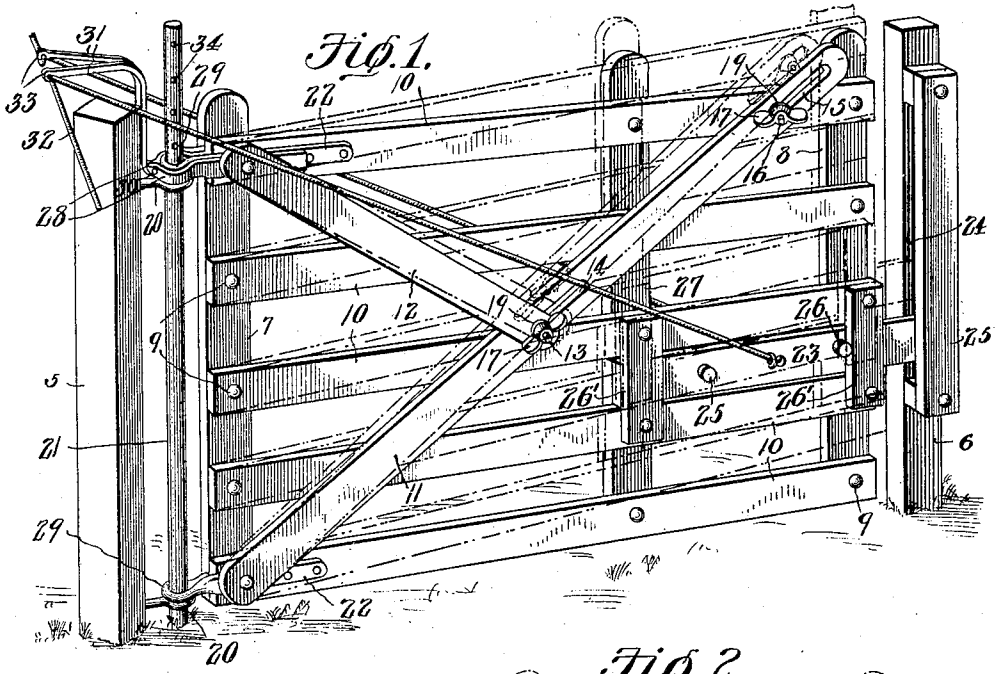


Fig. 2.

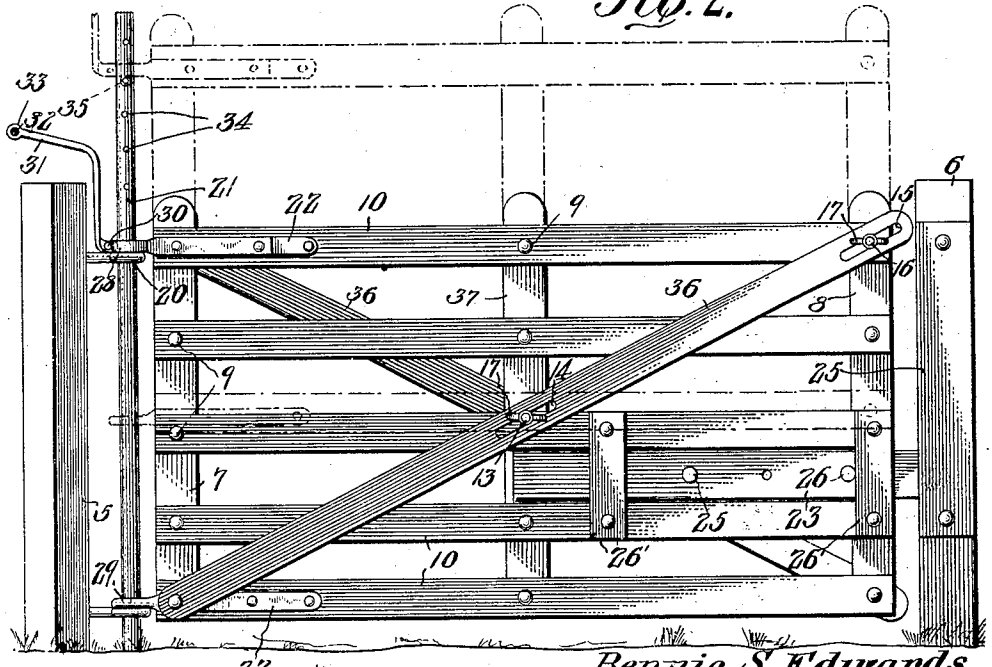
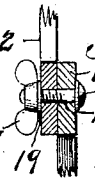


Fig. 3.



WITNESSES:

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GATE.

No. 865,577. Specification of Letters Patent. Patented Sept. 10, 1907.

Application filed January 19, 1906. Serial No. 296,857.

To all whom it may concern:

Be it known that I, BENNIE S. EDWARDS, a citizen of the United States, residing at White Hall, in the county of Greene and State of Illinois, have invented a new and useful Gate, of which the following is a specification.

This invention relates to gates.

The object of the invention is to provide a simple, inexpensive and efficient device of this character particularly designed for use as a farm gate, and capable of being moved to open position from either side of a roadway.

A further object of the invention is to provide means for elevating the free end of the gate and adjusting the latter vertically to permit free swinging movement of the same when moved to open and closed positions and also to permit the passage of small stock beneath the gate.

A still further object is to generally improve this class of devices so as to add to their utility and durability as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification. Figure 1 is a side elevation of a gate constructed in accordance with my invention. Fig. 2 is a similar view illustrating a modified form of the invention. Fig. 3 is a detail transverse sectional view of Fig. 1.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The device consists of a pair of spaced gate posts 5 and 6 mounted in any suitable manner on opposite sides of a roadway and preferably connected with a line of fencing. The improved gate is mounted for horizontal swinging movement between the posts 5 and 6 and comprises vertical end bars 7 and 8 to which are pivoted by bolts 9 a plurality of spaced longitudinal bars 10, the latter being reinforced by a diagonal brace 11 pivoted to the lower end of the rear bar 7, as shown. Pivoted to the upper end of the bar 7 is a short diagonal brace 12 the opposite end of which is pivoted to the brace 11 by means of a bolt 13 which passes through an elongated slot 14, there being a similar slot 15 formed in the free end of the brace 11 for the reception of a bolt 16 secured to the adjacent longitudinal bar 10. The bolts 13 and 16 are provided with wing nuts 17 which bear against suitable wear plates or washers 19 and serve to clamp the diagonal braces in contact with the longitudinal bars of the gate. By having the gate formed in this manner the free end thereof may be adjusted vertically to permit the gate to clear any obstruction on the road bed when said gate is moved to open and closed positions and also to permit the lower edge of the gate to conform to the inclination of the ground when the latter is erected on the side of a hill.

Extending laterally from the post 5 are spaced loops or eyes 20 adapted to receive a vertical rod or bar 21, and secured to the adjacent end of the gate are metal straps 22 which embrace the rod 21 and form the pivotal axis of the gate.

Slidably mounted between two of the longitudinal bars 10 at the free end of the gate is a latch 23 adapted to enter a vertical slot 24 formed by a keeper 25, the latter being secured to the post 6 with its intermediate portion spaced from said post so as to permit free vertical movement of the latch within the recess or slot 24 when the gate is adjusted vertically to allow the passage of small stock beneath the same.

The latch 23 is provided with lateral stop pins 25 and 26 which engage suitable stop plates 26′ pivoted to the bars 10 and serve to limit the longitudinal movement of the latch, one of the pins 25 also engaging a vertical brace 27 pivoted to the bars 10 between the vertical end bars, as shown.

Riveted or otherwise rigidly secured to the upper longitudinal bar 10 of the gate are a pair of brackets 28 which embrace the eye 29 of the upper strap hinge 22 and are bolted or riveted together at 30. The free ends of the brackets 28 are extended above the end of the post 5 and bent laterally to form supporting arms 31 for an operating cord or cable 32 which passes through suitable eyes 33 in said arms and is connected to the sliding latch 23 so that by exerting a longitudinal pull on either end of the cord 32 the latch will be withdrawn from its keeper and the gate swung to open position.

The bar or rod 21 is formed with one or more openings 34 adapted to receive a pin 35 to assist in supporting the gate in elevated position.

In operation when it is desired to support the free end of the gate in elevated position the wing nuts 17 are released and the adjustment effected by elevating the free end of said gate and subsequently clamping the nuts, as indicated in dotted lines in Fig. 1 of the drawings. To support the gate in position to permit the passage of small stock beneath the same the entire gate is elevated to the desired height and locked in position by inserting the pin 35 in one of the openings in the rod or bar.

If desired the eyes or loops 20 may be attached at one corner of the post 5 so that the gate may be swung to open position against the adjacent line of fencing and thereby offer an unobstructed opening for the passage of cattle.

In Fig. 2 of the drawings there is illustrated a modified form of the invention in which the braces 36 ex-

tend diagonally across opposite sides of the gate and intersect the intermediate vertical brace 37, as shown, the construction of the gate being otherwise the same as that shown in Fig. 1 of the drawings.

Having thus described the invention what is claimed is:—

1. A gate comprising longitudinal bars pivotally connected to end bars, a diagonal brace pivoted to the lower end of one of the end bars and provided with terminal and intermediate slots, a brace pivoted to the upper portion of said end bar and intersecting the diagonal brace, and fastening devices passing through said slots and engaging the brace and one of the longitudinal bars, respectively.

2. The combination with the gate posts, of a gate pivoted to one of the posts and vertically adjustable between the latter, said gate being formed of longitudinal bars pivoted to the end bars and connected by intersecting diagonal braces capable of sliding movement with respect to said longitudinal bars and also with respect to each other, a keeper secured to the opposite post, a latch slidably mounted between adjacent longitudinal bars of the gate and adapted to engage the keeper, and stops carried by the latch for limiting the longitudinal movement thereof.

3. The combination with the gate posts, eyes secured to one of said posts, a rod engaging said eyes, and a gate mounted for swinging movement between the posts and having strap hinges secured to the opposite sides of the gate and embracing the rod, reinforcing straps engaging the hinges on each side of the gate and having their intermediate portions embracing the rod and secured together and their free ends bent upwardly and laterally for attachment to an operating cord, a keeper secured to the opposite post, a latch slidably mounted on the gate and engaging the keeper, and means for supporting the gate in elevated position.

4. The combination with the gate posts, eyes secured to one of the gate posts, a rod engaging said eyes, a vertically adjustable gate mounted for horizontal swinging movement between said posts, strap hinges secured to the gate on both sides thereof and embracing the rod, a keeper secured to the opposite post, a latch slidably mounted on the gate for engagement with the keeper, and reinforcing straps secured to the hinges on each side of the latter and having their intermediate portions embracing the rod and their free ends extended upwardly and laterally for attachment to an operating cord.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

BENNIE S. EDWARDS.

Witnesses:
E. K. SHIRLEY,
WM. PETRI.