J. F. BUTLER.

GATE OPERATING MECHANISM.

APPLICATION FILED SEPT. 11, 1912.

1,067,640.

Patented July 15, 1913.

2 SHEETS—SHEET 1.

FIG. 2.

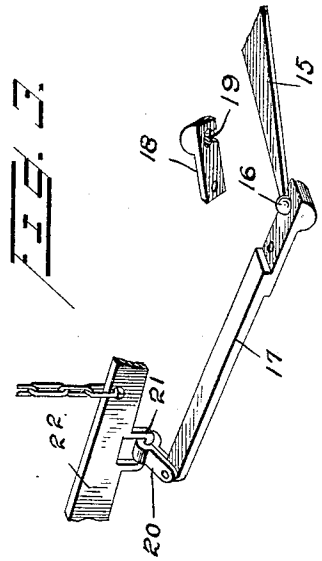


FIG. 1.

WITNESSES

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2 SHEETS—SHEET 2.

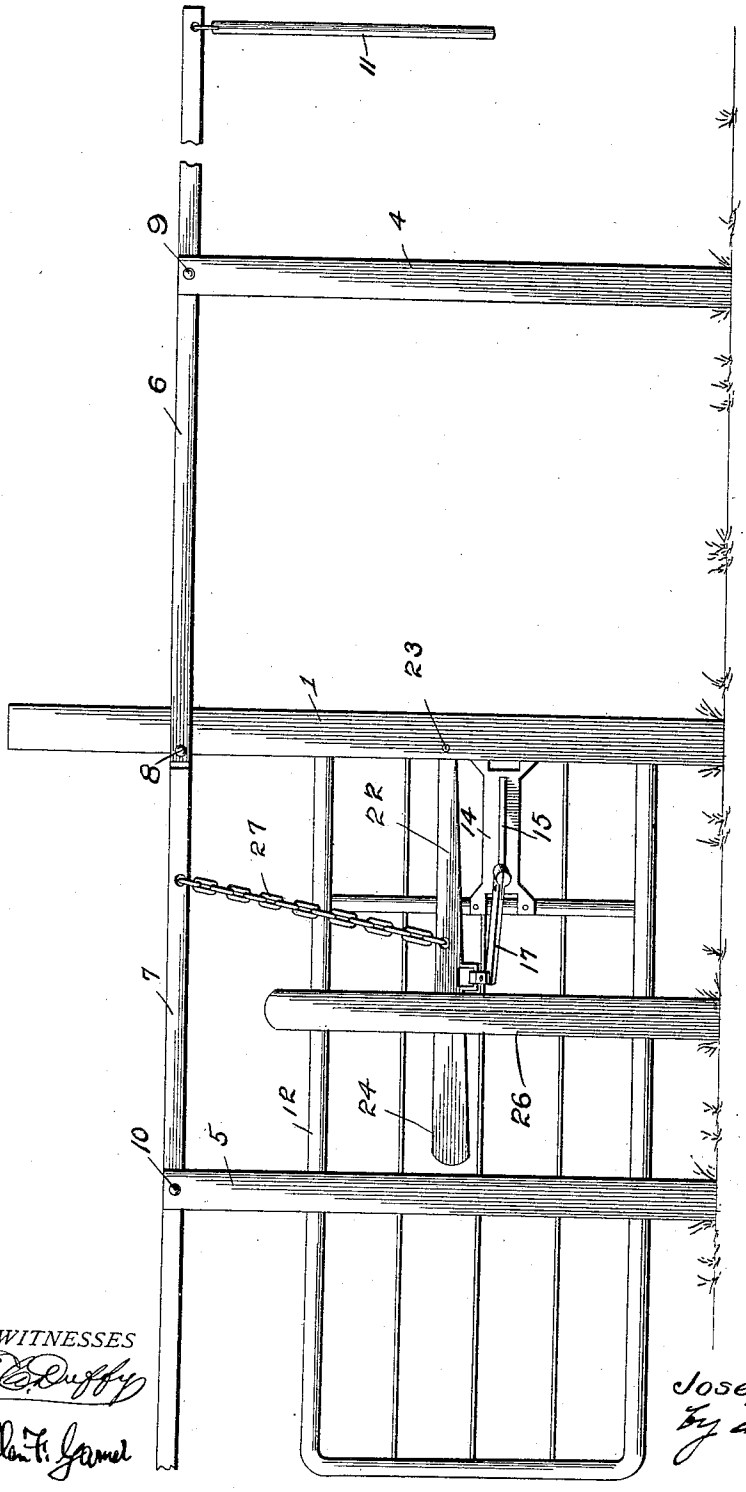


FIG. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

JOSEPH F. BUTLER, OF GORDON, TEXAS, ASSIGNOR OF ONE-HALF TO WILLIAM W. JOHNSON, OF GORDON, TEXAS.

GATE-OPERATING MECHANISM.

1,067,640. Specification of Letters Patent. Patented July 15, 1913.

Application filed September 11, 1912. Serial No. 719,727.

To all whom it may concern:

Be it known that I, JOSEPH F. BUTLER, a citizen of the United States of America, residing at Gordon, in the county of Palo Pinto and State of Texas, have invented certain new and useful Improvements in Gate-Operating Mechanism, of which the following is a specification.

This invention relates to gate operating mechanism and one of the principal objects of the invention is to provide simple, reliable and efficient means for opening and closing a gate which will not require springs or other parts which would be liable to get out of order or to become inoperative after being in use a short time.

Another object of the invention is to provide means for quickly opening and closing a gate from either side of the gate and to provide means for locking the gate when closed.

Still another object of the invention is to simplify the mechanism for opening and closing farm gates and to render the same more efficient and less expensive to manufacture.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which:

Figure 1 is a top plan view of a gate showing mechanism for opening and closing the same made in accordance with my invention, said gate being shown in dotted lines in open position and in full lines in closed position; Fig. 2 is a side elevation of the same showing the gate open; and Fig. 3 is a detail perspective view of parts of the operating mechanism partially broken away.

Referring to the drawings, the numeral 1 designates the supporting post and 2 is the gate post, the latter being provided with a stop or projection 3. Supporting posts 4 and 5 at opposite sides of the gate are provided for the operating levers 6 and 7, said levers being sildingly pivoted at 8 and pivoted at 9 and 10 to the posts 4 and 5. The operating levers 6 and 7 are provided with depending handles 11.

The gate 12 may be of the usual or any suitable construction, said gate being connected by means of hinges 13 to the post 1.

Connected to the gate 12 is a supporting bar 14 and rigidly connected to said bar is an arm 15 provided with a ball 16 at its outer end. The ball 16 is mounted in a socket in the end of a lever 17 and a cap plate 18 is also provided with a coöperating socket 19 which fits over the ball 16, said plate being secured to the lever 17 to hold the ball in place. Pivoted to the lever 17 is a link 20, said link being hinged to a depending bearing 21 formed on the weighted lever 22. The lever 22 is pivoted at 23 to the post 1 and its free end 24 is enlarged to provide a weight for normally throwing the lever down, the lever 22 being guided in a slot 25 in a post 26. A chain 27 is connected to the pivoted lever 22 at one end and the opposite end is connected to the operating lever 7.

The operation of the gate may be briefly described as follows: By pulling downward on either handle 11 the weighted lever is raised, and when the handle 11 is released the lever 22 drops by gravity, said lever being connected to the lever 17 by means of a link 20. The arm 15, being rigidly connected to the gate is swung with the gate in opening and closing the same, and when the gate is closed it is locked until the weighted lever 22 is again raised by means of one of the handles.

From the foregoing, it will be obvious that my invention is simple in construction, is reliable in operation, can be manufactured at low cost and is not liable to get out of order since there are no springs or other parts liable to wear out or become injured in use.

I claim:

A gate operating mechanism comprising a gate hinged to a post, a weighted lever pivoted to said post, a guide post provided with a slot for said lever, a link hinged to said lever, a lever pivoted to said link and provided with a socket at one end, an arm rigidly connected to said gate and provided with a ball at its outer end to fit within said

socket, and operating levers pivoted to posts and pivotally connected together and a single flexible connection extending from one of said levers to the weighted lever for raising the weighted lever and permitting the same to drop by gravity for opening and closing the gate.

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

JOSEPH F. BUTLER.

Witnesses:
WILL. J. DYER,
SIMEON WILSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."