(No Model.)

A. W. KUNCE.

GATE.

No. 535,251. Patented Mar. 5, 1895.

Fig. 1.

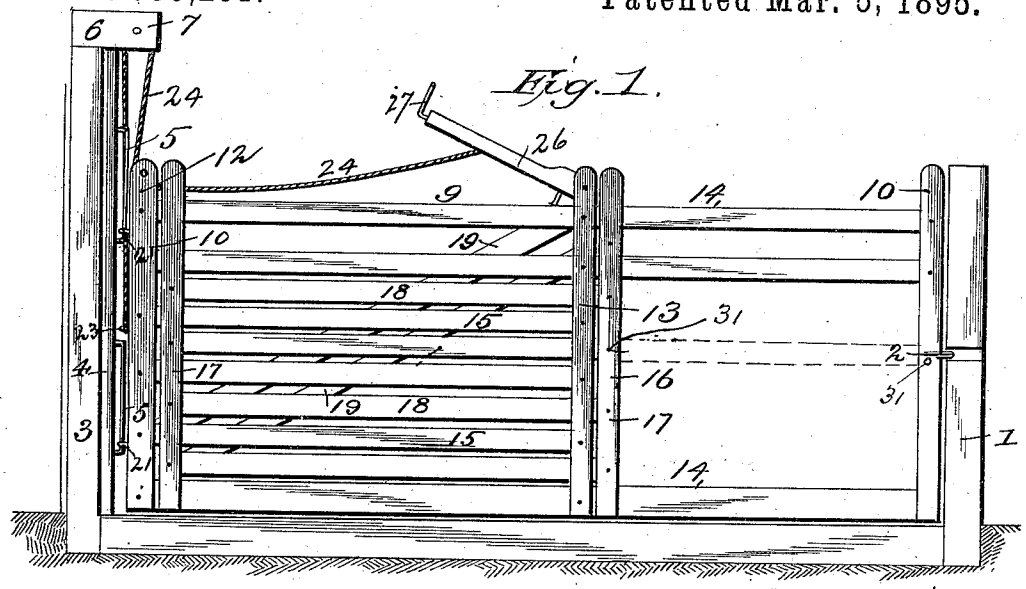


Fig. 2.

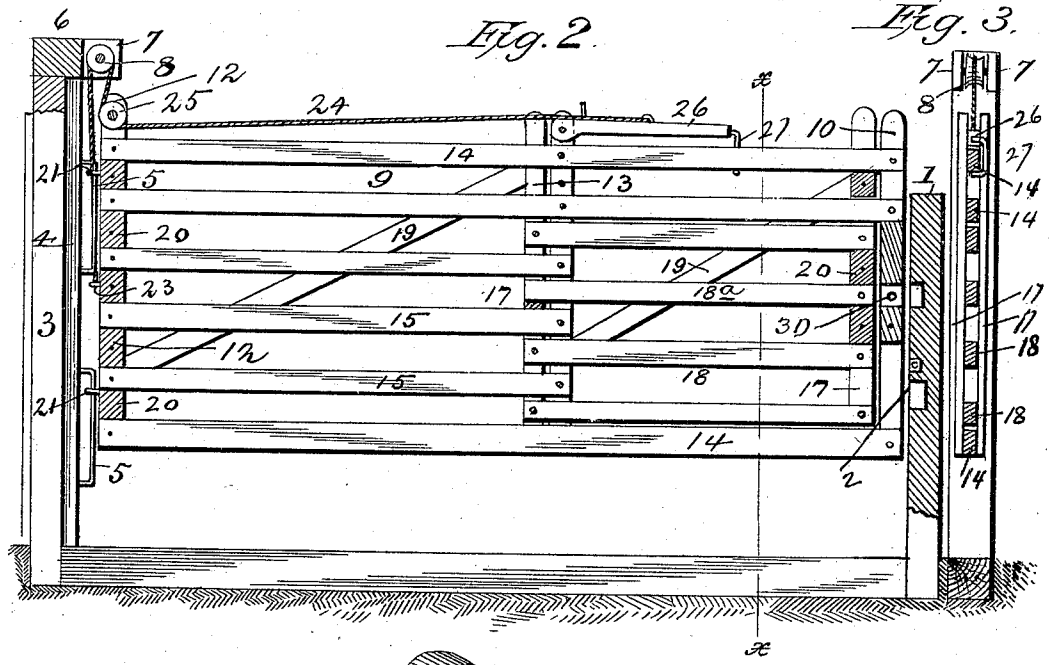
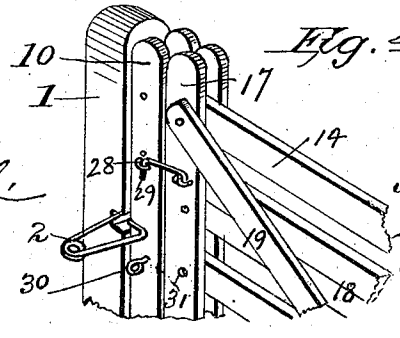


Fig. 3.

Fig. 4.



WITNESSES:
F. L. Ourand.
W. L. Coombs

INVENTOR:
Allen W. Kunce,
by Louis Bagger & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

ALLEN W. KUNCE, OF KENTON, OHIO, ASSIGNOR OF ONE-HALF TO WILLIS O. SHELLY, OF SAME PLACE.

GATE.

SPECIFICATION forming part of Letters Patent No. 535,251, dated March 5, 1895.

Application filed September 18, 1894. Serial No. 523,369. (No model.)

To all whom it may concern:

Be it known that I, ALLEN W. KUNCE, a citizen of the United States, and a resident of Kenton, in the county of Hardin and State of Ohio, have invented certain new and useful Improvements in Gates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in farm gates which can be opened in either direction in the ordinary manner, for the passage of cattle or vehicles, and which can also be raised so as to allow stock, such as pigs and sheep, to pass underneath. The gate is also constructed with a sliding portion which may be moved back and forth, forming an opening of greater or less extent, which will be found very useful in separating stock.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings: Figure 1 is a side elevation of a gate constructed in accordance with my invention; the slide being opened. Fig. 2 is a longitudinal sectional view, the slide being closed, and the gate elevated to allow hogs, sheep and other small animals to pass underneath. Fig. 3 is a vertical section on the line *x*, *x*, Fig. 2. Fig. 4 is a detail perspective view.

In the said drawings, the reference-numeral 1 designates the front gate post provided with a spring catch 2, and 3 the rear post. This post 3, on its inside, is provided with a vertical rib 4 to which are secured near the top and bottom short vertical rods 5, the ends of which are bent at right angles and driven into the said rib, so that there will be a small space between said rods and rib. At its top the post 3 is provided with a cap 6, having lugs 7, in which is journaled a pulley 8.

The numeral 9 designates the gate comprising end vertical rails 10 and 12, and intermediate rails 13, arranged in pairs, between which are the ends of the top and bottom long horizontal rails 14.

Secured to the intermediate rails 13, and end rails 12, are a series of short horizontal rails 15. By this construction a space or opening is provided between the front end rails and intermediate rails for the passage of cattle or footmen. This opening is closed by a supplemental gate or slide consisting of vertical end rails 17, 17, embracing the horizontal rails to which are secured horizontal rails 18, which pass between the vertical intermediate rails 13. Both the main gate and slide are braced by diagonal brace bars 19.

Blocks 20 are interposed between the vertical rails of the gate and slide, and to two of these blocks at the rear end of the gate, are secured eyes 21, which engage with the rods 5, which form the pivots of the gate.

Secured to an eye 23 at the rear end of the gate is a rope 24, which passes up around pulley 8, and from thence it passes around a similar pulley 25, journaled in the upper ends of the rear vertical rails 12, to a lever 26, journaled in the intermediate vertical rails 13. This lever is provided with a hook 27, which is adapted to engage with a staple not shown on the upper horizontal rail 14, of the gate and hold the lever in place.

A pivoted catch 28 is provided at the front end of the slide, which is adapted to engage with a staple 29 on the front end of the main gate, and lock the slide in place when closed.

One of the horizontal rails, marked 18^a, of the supplemental gate or slide, is movable horizontally, and its front end is adapted to engage between the front vertical rails 12, where it is held in place by a removable pin 30. By this means the size of the opening in the gate may be varied as seen in dotted lines in Fig. 1. By removing the pin and pushing the rail 18^a back, and then passing the pin through the holes 31, in the rails 17, the rail will move with the slide, whereas when said rail is connected with the rails 12, it will remain stationary, when the slide is moved back and forth. This rail 18^a is also adapted

to engage either with a mortise 18[b] in the front post 1, below the latch, so as to hold the gate when elevated, or with a mortise 18[c] below the latch to prevent stock from raising the gate when closed.

The operation is as follows: When it is desired to open the gate for the passage of vehicles, or otherwise, the spring-finger of catch 2, on that side of the gate at which it is to be opened, is pushed outwardly, so as to disengage it from the front of the gate. The latter can now be turned or swung on its pivots in the ordinary manner. To elevate the gate to allow hogs, sheep, and other small animals to pass underneath, the lever 26 is swung over to the right, which, through the medium of the rope secured thereto, and to the gate, will elevate the latter as seen in Fig. 2. To allow foot passengers to pass without opening the gate and also to provide a passageway for stock, when but a few are to be allowed to pass at a time, is the object of the slide. To open this, the catch or hook is disengaged from the staple, and the slide pushed back, as seen in Fig. 1. In opening the gate, it is best to push the slide back, as it relieves the rear post of a portion of the weight.

Having thus described my invention, what I claim is—

The combination with the front and rear posts, the latter provided with a vertical rib and short guide rods, a cap and a pulley; of the gate, comprising the vertical rails, the long and short horizontal rails secured thereto, the eyes at the rear of the gate engaging with the guide rods, the pulley journaled to the upper ends of the rear vertical rails, the pivoted lever, and the rope connected therewith and with the gate; and the slide consisting of the vertical end rails, the horizontal rails secured thereto, the movable horizontal rail and the retaining pin, all constructed and operated substantially as described.

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

ALLEN W. KUNCE.

Witnesses:
JNO. M. PEARCE,
BENJAMIN PEARCE.