

C. W. Saladee,

Gate.

No. 111,780.

Patented Feb. 14, 1871.

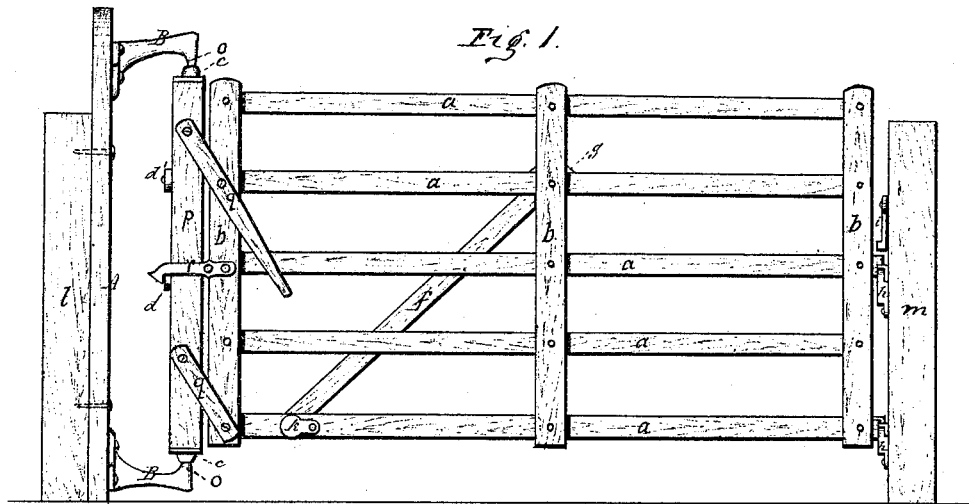


Fig. 3

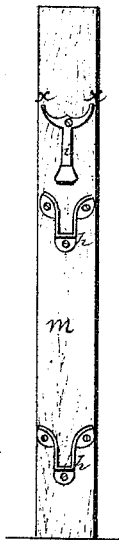


Fig. 2

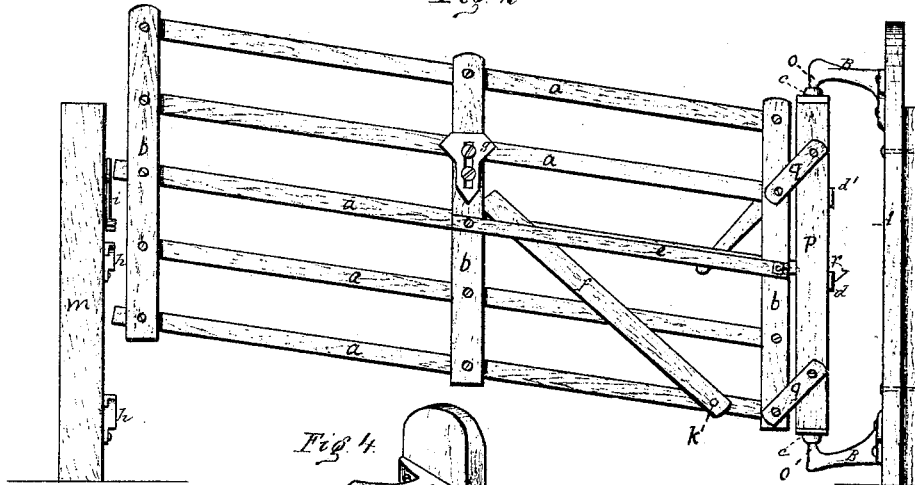
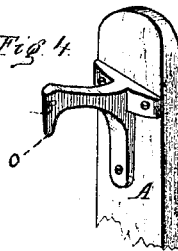


Fig. 4



Witnesses
H. G. Street
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CYRUS W. SALADEE, OF ST. CATHARINES, CANADA.

Letters Patent No. 111,780, dated February 14, 1871.

IMPROVEMENT IN GATES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, CYRUS W. SALADEE, of St. Catharines, in the county of Lincoln, and in the Province of Ontario, Canada, have invented a new and improved Mode of Constructing Farm and Yard-Gates; and I do hereby declare that the following is a full, clear, and exact description thereof, references being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in constructing a farm and yard-gate with self-locking latch, yoke-bar holders, brace-lock, self-supporting hinges, locking-stud, crab-bolt, guide-brace, making, with the bars and other parts hereinafter more fully described, a flexible gate suitable to the purposes as set forth below.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

In the drawing—

Figure 1 represents my gate when completed and set in position to perform its intended use, when locked for ordinary use;

Figure 2 is a view of the same from the opposite side, showing the gate unlocked and partially raised;

Figure 3 is a detail view showing more clearly the yoke-bar holders and the self-locking latch; and

Figure 4 is a detail view of the self-supporting hinge, showing more clearly its manner of construction and application.

a a a a are the horizontal bars of a flexible gate;

b b b, the cross-ties or braces of the same;

g, the parallel arms used in elevating the gate on its intermediate post *p*; and

l and *m* are the permanent posts.

A is my portable post, constructed of hard wood, of suitable height, and about six inches wide and two inches thick. This post *A* is to be secured to the permanent post when used by heavy spikes, bolts, or suitable means.

In manufacturing this gate the portable post *A* will be sold with the gate, so that there will be no necessity of digging a new post-hole, and the gate can be hung in a few minutes, post *A* being a part of the gate.

B are the self-supporting hinges, of the general form shown in fig. 4, and secured by screws, as therein shown.

The gate lies on the top and bottom of its intermediate post *p* caps, *c*, which are provided with recesses to receive the corresponding projections *o* of the hinges *B*.

The weight of the gate is, by the reason of the peculiar construction of the hinge, diverted from a downward to a side pressure against the post *A*, and thus in a great measure preventing sagging of the gate by preventing sagging of the hinge.

To the further prevention of the gate's sagging, I have provided an adjustable brace-lock, *g*, shown in fig. 2. The form is there shown, and the slot through which the screws that hold the brace-lock to its place on the center cross-bar of the gate pass, and the brace-lock has its sides to lap over onto the edges of the cross-bar so as to be firmly secure and also present a purchase for the end of the brace *f*, having its pivot on crab-bolt *k*.

The brace *f* has a guide, *e*, by means of which it is held in line, yet allowing perpendicular play.

This brace-lock *g* being adjustable, if there should happen to be any sagging or letting down of the gate the brace-lock could be readily lowered and secured to remedy the defect.

The self-locking latch *i* is cast in the general form of a *T*, as shown in fig. 3, and is made with the perpendicular part of the *T* sufficiently heavy to cause it to assume the erect position of that letter when secured by screw or nail at the point where the upper cross-piece unites with the lower part.

The end of the perpendicular part of the latch *i* is made broad, (see fig. 3,) so as to cover and hold bars *a* in the yoke-bar holders *h*, shown in fig. 1.

The ends *x* of the cross-piece of the latch are pressed upon, and thereby unlock the gate when desired.

The yoke-bar holders *h* are cast of the general form shown in fig. 3, and secured by screws, as shown in said fig. 3. Two of these yokes are used, as delineated in the drawing, and for the purpose of supporting and, with the latch *i*, for holding the front end of the gate.

Means for holding the gate more closely to the intermediate post *p* are provided in the hook *r*, which is fast on the gate and the studs *d* and *d'*, the stud *d* being used with the hook when the gate is used as in fig. 1, and stud *d'* is used when the gate is raised bodily on the intermediate post.

Having thus fully described my invention,

What I desire to secure by Letters Patent, as my invention, is in the following claims:

1. The adjustable brace-block *g*, constructed and operating in the manner and for the purposes set forth.

2. The combination of the posts *p* and *b*, the hook *r*, and studs *d* and *d'*, constructed as described, and operating as and for the purposes set forth.

In testimony that I claim the above-described improvements in farm and yard-gates, I have hereunto signed my name this 23d day of September, 1870.

CYRUS W. SALADEE.

Witnesses:

V. C. CLAYTON,
EDM. F. BROWN.