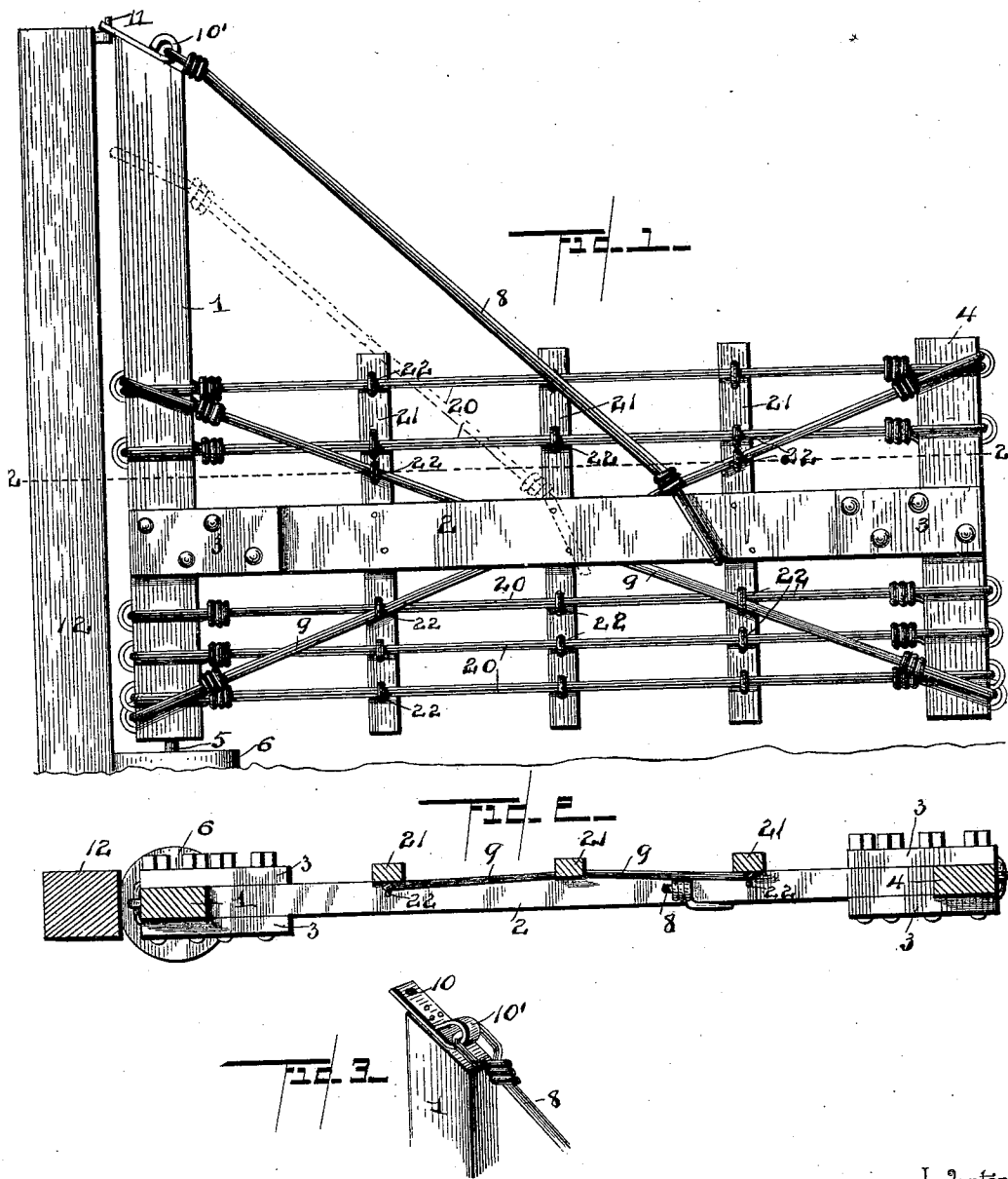


(No Model.)

M. W. ST. JOHN.
WIRE GATE.

No. 469,923.

Patented Mar. 1, 1892.



Witnesses

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MOSES W. ST. JOHN, OF CEDAR FALLS, IOWA.

WIRE GATE.

SPECIFICATION forming part of Letters Patent No. 469,923, dated March 1, 1892.

Application filed July 21, 1891. Serial No. 400,207. (No model.)

To all whom it may concern:

Be it known that I, MOSES W. ST. JOHN, a citizen of the United States, residing at Cedar Falls, in the county of Black Hawk and State of Iowa, have invented a new and useful Wire Gate, of which the following is a specification.

This invention relates to swinging gates; and the object thereof is to effect certain improvements therein.

To this end the invention consists in the specific details of construction hereinafter more fully described and claimed, and illustrated on the sheet of drawings, wherein—

Figure 1 is a side elevation of this gate.

Fig. 2 is a horizontal section on the line 2 2 of Fig. 1. Fig. 3 is a perspective detail of the casting at the upper end of the inner bar.

Referring to the said drawings, 1 is the inner end bar of the gate, and 4 is the outer.

2 is a horizontal bar abutting at its end against the upright bars, and 3 3 are cleats nailed, screwed, or bolted over the ends of the horizontal bar and across the uprights at each side thereof, as seen in Fig. 2. By this form of connection no mortise is formed and the members of the gate are not weakened thereby, as is often the case. The inner end bar is quite long and extends vertically above the body of the gate, its upper end being beveled

and provided with a casting having an eye 10, which engages a hook 11 on the supporting-post 12, and also with another eye 10', and at the lower end this end bar is preferably provided with a depending stud 5, which is seated in a socket in the upper end of a stone or a stub-post 6, driven into the ground against the inner face of the supporting-post. By this arrangement the body of the gate is caused to rise as it is opened in either direction, and at the same time the lower end of the end bar 1, by pressing inwardly, bears the stub-post against the supporting-post and does not displace the same. Hence the gate at all times remains in upright position.

However, I do not limit myself to the use of the stub-post. The eye 10' in the casting at the upper end of the end bar is connected by a suspension-wire 8 with the horizontal bar 2, whereby the main body of the gate is sus-

pended and prevented from sagging. The end bars are connected by horizontal wires 20, as shown, and in addition diagonal brace-wires 9 9 connect the corners of the gate to hold it in proper rectangular shape. These diagonal wires are highly useful where the gate is of the form shown and supported by the wire 8, because the latter by supporting the gate at its center only does not prevent its racking and getting out of shape; but the diagonal wires do. 21 are vertical pickets secured to the horizontal bar 2 where they cross it and stapled, as at 22, to the wires 20 and 9.

A gate of this character can be cheaply constructed and will last for a long time without breaking or sagging. The outer end bar 4 can of course be provided with a suitable latch (not shown) for connecting with the latch-post, and other changes in the construction may be made as fancy and experiment will teach advisable. Among such changes I will suggest that in the case of very long or heavy gates it will probably be found best to reinforce or add to the suspension-wire 8, which connects the supporting-post 12 with the horizontal bar 2, one or more additional supporting-wires, as seen in dotted lines in Fig. 1.

I claim as the salient features—

The herein-described gate, the same comprising a long inner end bar beveled at its upper end, a short outer end bar, a horizontal bar with its ends secured to said end bars, a hinge-casting secured on said beveled end and having an eye, an inclined supporting-wire connecting said eye with the horizontal bar, and wires and pickets forming the gate-body, in combination with a post having a hinge member engaging said casting and a pivotal support for the lower end of said inner end bar, substantially as set forth.

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

MOSES W. ST. JOHN.

Witnesses:

A. C. TORREY,
P. HOAGLAND.