(No Model.)

2 Sheets—Sheet 1.

J. HULT.

WIRE FENCE GATE.

No. 475,867. Patented May 31, 1892.

FIG. 1.

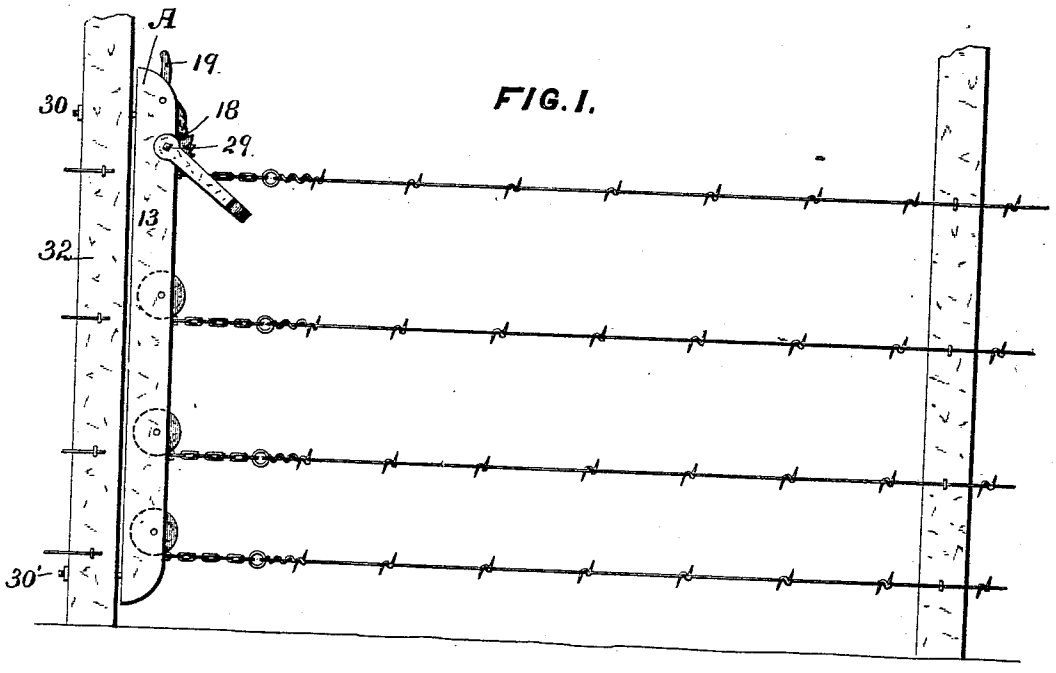


FIG. 3.

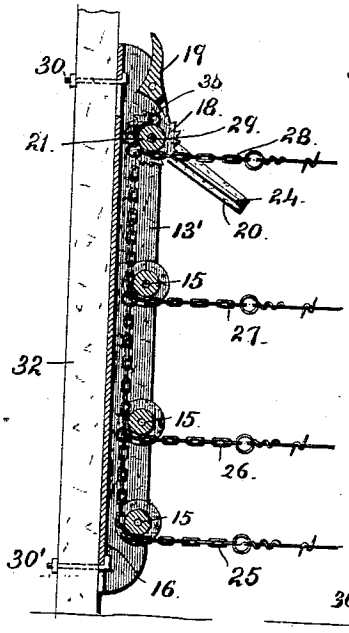


FIG. 4.

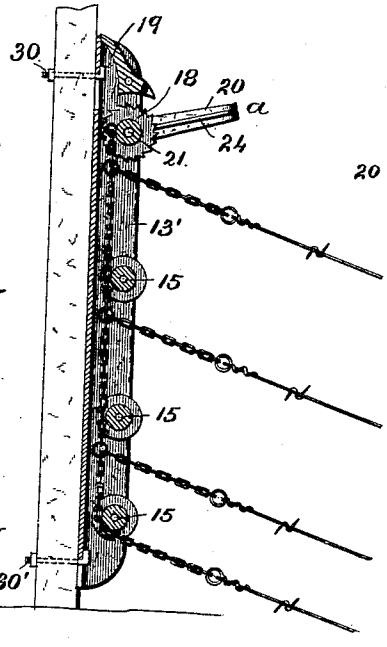


FIG. 5.

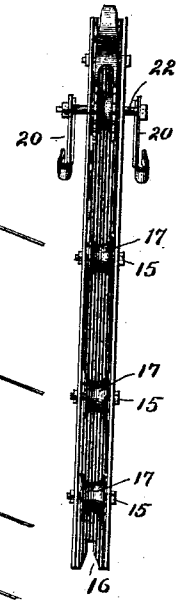
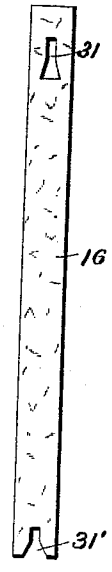


FIG. 6.



ATTEST.

J. Henry Kaiser.

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(No Model.)

2 Sheets—Sheet 2.

J. HULT.

WIRE FENCE GATE.

No. 475,867. Patented May 31, 1892.

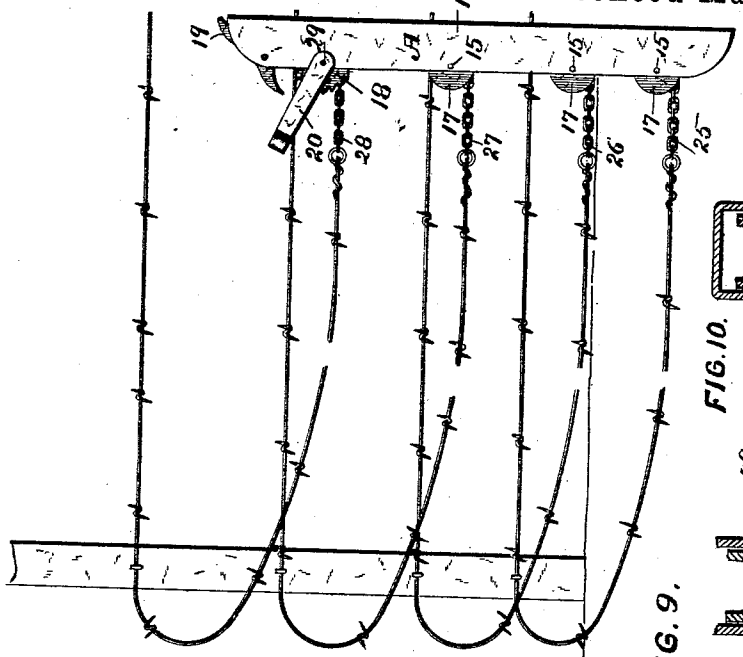


FIG. 2.

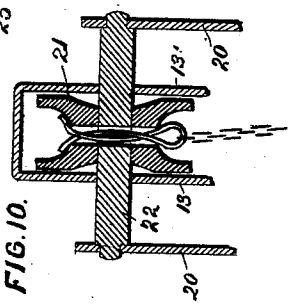


FIG. 10.

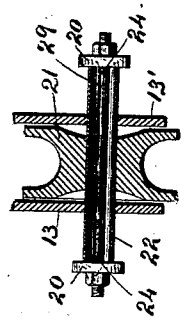


FIG. 9.

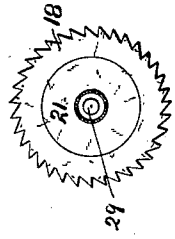


FIG. 8.

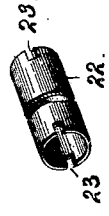
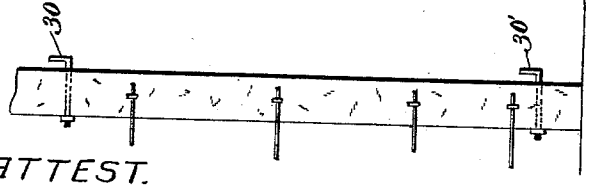


FIG. 7.



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UNITED STATES PATENT OFFICE.

JOHN HULT, OF BURLINGTON, IOWA.

WIRE-FENCE GATE.

SPECIFICATION forming part of Letters Patent No. 475,867, dated May 31, 1892.

Application filed January 22, 1892. Serial No. 418,916. (No model.)

To all whom it may concern:

Be it known that I, JOHN HULT, a citizen of the United States of America, residing at Burlington, in the county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Wire-Fence Gates, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a gate for wire fences of simple construction and easy of operation, and I attain my object in the manner herein set forth and claimed as my invention.

In the drawings, Figure 1 is a side elevation of my gate closed. Fig. 2 is a side elevation of my gate open. Fig. 3 is a detail of my invention, partly in section, showing the wires taut. Fig. 4 is the same, showing the wires slack. Fig. 5 is a rear elevation of the supporting-frame with the wires detached. Fig. 6 is a front elevation of the face-plate of the supporting-frame. Fig. 7 is a detail of the rock-shaft. Fig. 8 is a detail of the ratchet. Fig. 9 is a detail in section of the stretcher. Fig. 10 is a modification of the stretcher in section.

Like figures refer to the same parts throughout the several views.

The supporting-frame A, when made of hard wood, which is a convenient material therefor, consists of two side plates 13 and 13′, rigidly attached by bolts 15 15 15, and a face-plate 16. Riding freely upon bolts 15 are the pulleys 17 17 17 within the side plates 13 and 13′. The ends of the fence-wires are provided with chains 25, 26, 27, and 28, which bear against the lower sides of pulleys 17 and ratchet-pulley 21, respectively. The lower chain 25 extends upward and is attached to ratchet-pulley 21 in any suitable manner. The upper chain 28 is attached to chain 25 near its point of attachment to ratchet-pulley 21. Chains 26 and 27 are attached to the lower chain 25 after passing beneath and engaging with pulleys 17 at a point approximately opposite to the pulleys, by which arrangement ratchet-pulley 21 will simultaneously strain all the wires of the fence. Additional intermediate wires may be attached in a similar manner. The wire stretcher and holder consists of the ratchet-pulley 21, mounted upon and attached to rock-shaft 22, which is held upon bolt 29, passing through its bore. The rock-shaft 22 and bolt 29 extend beyond the side plates 13 13′ to give play to levers 20. On the ends of rock-shaft 22 are the slots 23 for the reception of feather 24 upon levers 20, the feather 24 being held in engagement with slots 23 by the head and nut on bolt 29. The rock-shaft has its bearings in the side plates 13 and 13′, between which the ratchet-pulley 21 is located. Ratchet 18 is rigidly attached to ratchet-pulley 21. Pawl 19, pivotally attached to the side plates above the ratchet, engages with the ratchet by gravity for the purpose of holding the wire taut.

The supporting-frame is detachably attached and held to the gate-post 32 by means of the dowel-pins 30 30′, entering irregular slots 31 31′ in the face-plate 16. On attaching the supporting-frame carrying the wires and stretcher to the gate-post in the manner described and lowering lever 20 at its free end it is evident that the wires will be simultaneously brought taut, where they will be held by pawl 19, engaging with ratchet 18. Releasing the pawl and raising the free end of lever 20 will relieve the tension of the wire. The pawl will be readily released by first pressing down the free end of lever 20, thus withdrawing the engaged tooth of the ratchet. Upon releasing the tension of the wires the supporting-frame may be detached from the gate-post and carried to one side, leaving an open way.

A modification of the stretcher is shown in Fig. 10, which is specially adapted to use when the side and face plates of the supporting-frame are constructed of metal and cast integral. In this construction the bolt 29 is omitted. The levers 20 are attached to the ends of the rock-shaft 22, having its bearings, as before described, in side plates 13 and 13′. When the supporting-frame plates are cast integral, bolts 15, to hold the side plates together, are no longer needed and spindles for pulleys 17 are substituted therefor.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a gate for wire fences, the combination of a supporting-frame capable of being detachably attached to a gate-post, a wire

stretcher and holder consisting, essentially, of a rock-shaft having an attached pulley and ratchet, a pawl and lever for actuating the rock-shaft, and fence-wires having chain ends attached to the stretcher and bearing against pulleys in the supporting-frame, as and for the purposes specified.

2. In a gate for wire fences, a supporting-frame capable of being detachably attached to a gate-post, in combination with the herein-described wire-stretcher, consisting of a rock-shaft having bearings in the side plates of the frame, ratchet-pulley 21, ratchet 18, pawl 19, and levers 20, and with fence-wires having chain ends, the bottom wire being attached by its chain end to a ratchet-pulley upon the rock-shaft, and the wires above the bottom one being attached by their chain ends to the chain end of the lower wire after passing under and engaging with pulleys located in the supporting-frame, as and for the purposes specified.

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

JOHN HULT.

Witnesses:
C. L. POOR,
A. M. ANHOTUS.