

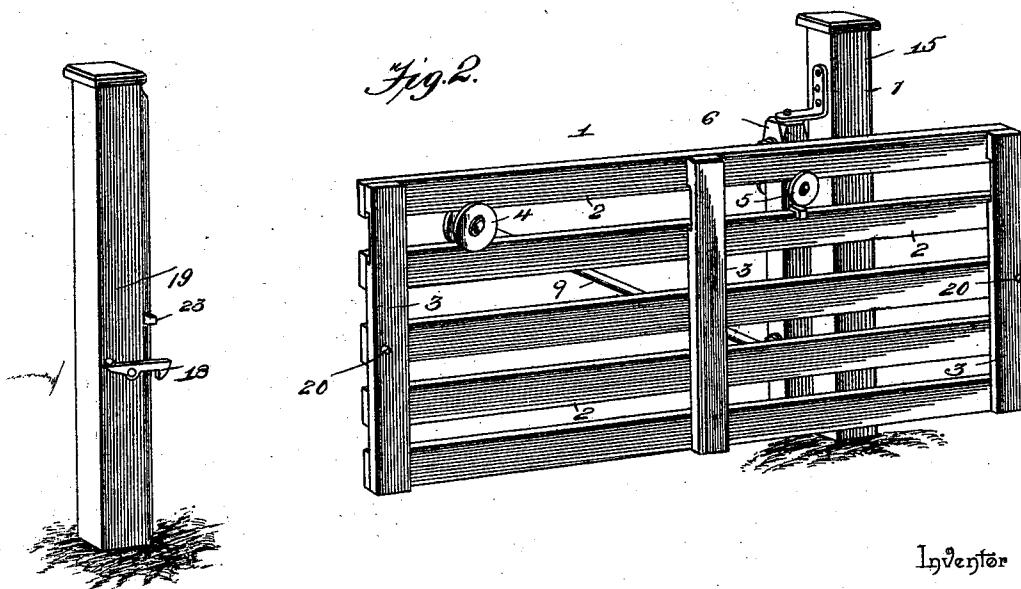
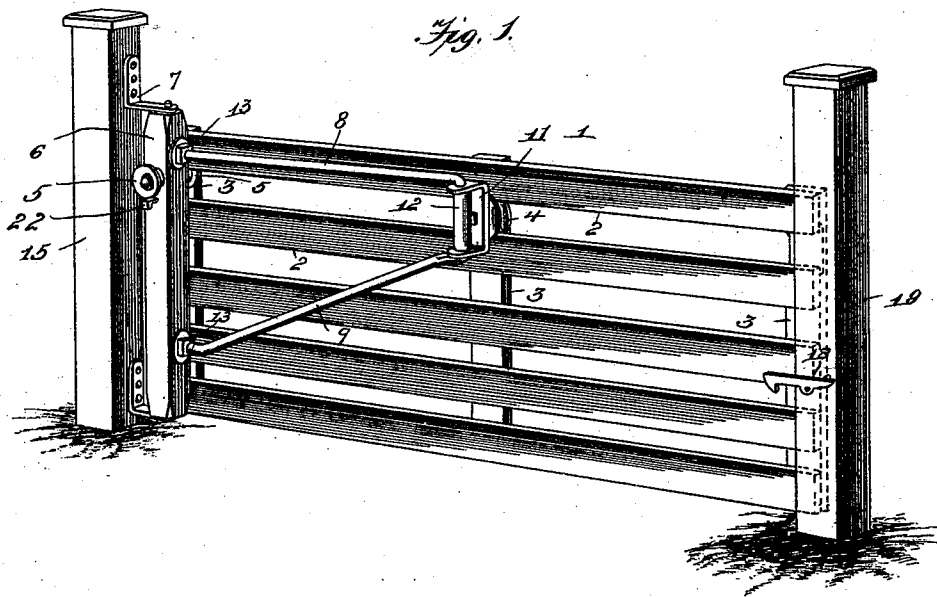
(No Model.)

2 Sheets—Sheet 1.

J. H. JACKSON.
GATE.

No. 546,667.

Patented Sept. 24, 1895.



Inventor

Joseph H. Jackson,

Witnesses

John C. Shaw
J. F. Riley

By his Attorneys.

C. A. Snow & Co.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

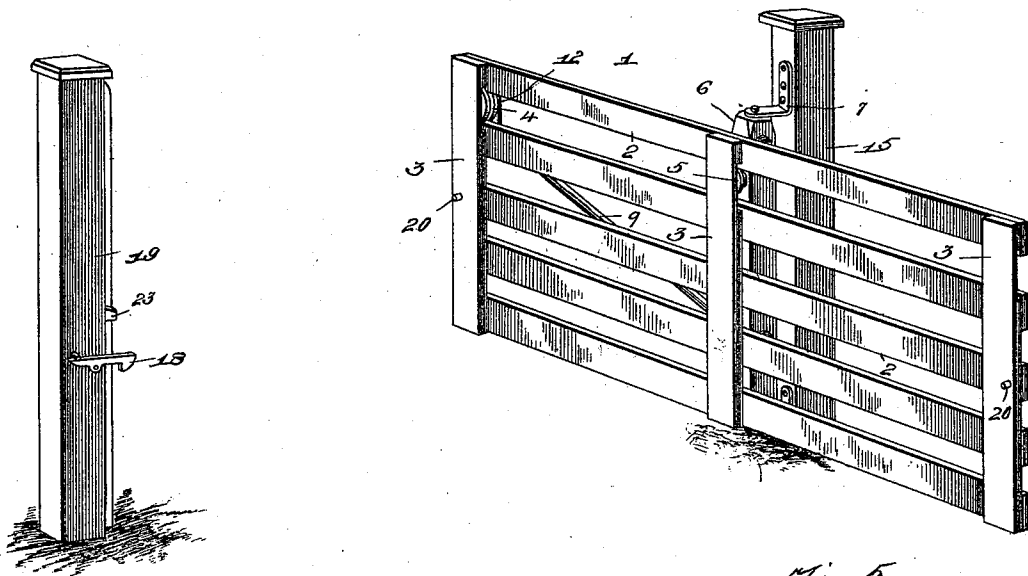


Fig. 5.

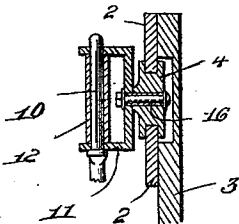
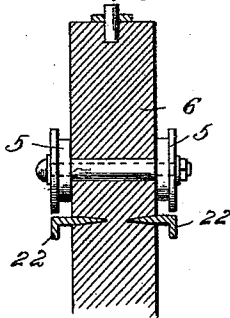
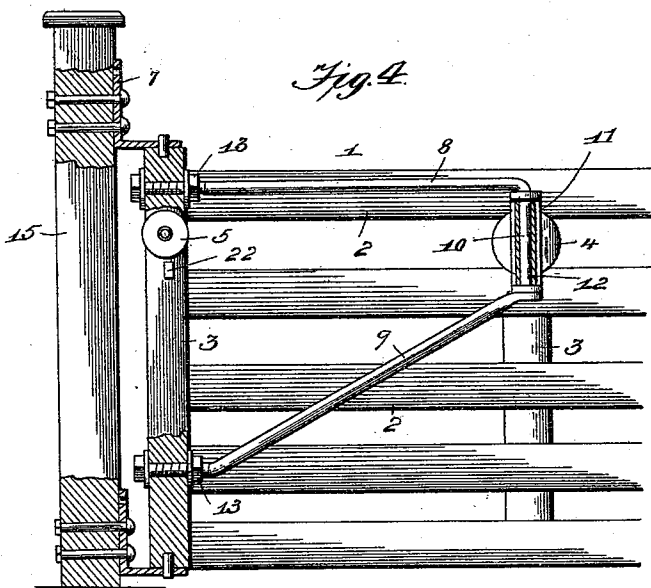


Fig. 6.



Inventor



Witnesses

John C. Shaw
J. F. Riley

By his Attorneys, *Joseph H. Jackson,*

Chas Snow & Co

UNITED STATES PATENT OFFICE.

JOSEPH H. JACKSON, OF GALVESTON, INDIANA.

GATE.

SPECIFICATION forming part of Letters Patent No. 546,667, dated September 24, 1895.

Application filed May 21, 1895. Serial No. 550,110. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. JACKSON, a citizen of the United States, residing at Galveston, in the county of Cass and State of Indiana, have invented a new and useful Gate, of which the following is a specification.

The invention relates to improvements in gates.

The object of the present invention is to improve the construction of sliding and swinging gates and to provide a simple and inexpensive one which may be readily adjusted to counteract sagging and to enable it to swing clear of snow or other obstructions and which may be readily removed from its mountings when desired.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a gate constructed in accordance with this invention and shown closed. Fig. 2 is a similar view, the gate being partly open. Fig. 3 is a similar view, the gate being open. Fig. 4 is a vertical sectional view of the rear half of the gate. Figs. 5 and 6 are detail sectional views illustrating the manner of mounting the rollers of the gate.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a gate composed of horizontal rails 2 and vertical connecting-bars 3, arranged at the ends and the center of the gate and located at one side of the horizontal rails. The upper pair of horizontal rails are arranged on flanged or grooved pulleys or rollers 4 and 5 of a swinging hanger which is composed of a vertical post 6, journaled in suitable bearings of brackets 7, a horizontal rod 8, arranged adjacent to the top of the post, and an inclined bracing-rod 9. The outer portion of the horizontal rod is bent downward at right angles to form a vertical spindle 10 for a rectangular bearing-bracket 11; but the spindle may be, if desired, constructed separate from the horizontal rod or be formed integral with the brace. A spacing-sleeve 12 is arranged on the vertical spindle and is interposed between the horizontal arms of the bearing-bracket 11 and sup-

ports the same. The inner terminals of the rods 8 and 9 are threaded and pass through the post 6, and are secured adjustably to the same by nuts 13, washers being interposed between the nuts and the faces of the post; but the rods may be otherwise adjustably secured to the latter. The brackets 7 are L-shaped and are adjustably secured by suitable fastening devices to an upright 15 and are provided in their horizontal portions with perforations for the reception of journals of the post 6 of the hanger, and the vertical portions of the bearing-brackets 7 are provided with series of perforations.

The pulley or roller 4 is arranged on a tubular journal 16 and is secured thereon by a suitable fastening device, such as a bolt or the like. A pair of rollers 5 are employed, and one is located at each side face of the post 6, and the vertical bars 3 of the gate are recessed adjacent to the top rails of the gate to permit the passage of the flanges of the rollers. The rollers 5 are mounted on a tubular journal or rod, and are retained thereon by a bolt or the like, washers being interposed between the rollers and the head and nut of the bolt.

The rectangular bearing-bracket 11 is adapted to swing on the vertical spindle portion of the hanger when the inner end of a gate is disengaged from the roller 5 to permit the gate to be reversed and arranged on the other side of the hanger-frame, and a pair of latches 18 are mounted on a latch-post 19, and the gate is provided with projections 20 to be engaged by the said latches.

In the operation of the gate it slides on the rollers of the hanger-frame, and the latter is then turned to bring the gate longitudinally of the roadway, and, if desired, the gate may be readily detached from the hanger by sliding it off the rollers thereof.

The post 6 is provided below the rollers 5 with L-shaped arms or projections 22, which engage over the adjacent rail of the gate and serve to hold the same in proper position. When the gate is closed, it is preferably supported by a beveled block 23, mounted on the latch-post and adapted to receive a horizontal rail of the gate. The block is arranged to receive an intermediate rail of the gate when the latter is in its lowermost position, and

when the gate is elevated a lower rail is adapted to be supported by the block 23. A block 23 is designed to be arranged at each side of the stop or abutting strip of the latch-post in order to accommodate the gate in either position. By this construction the front end of the gate is supported at all times when the gate is closed. The vertical bars 3 are required at only one side of the gate, and by adjusting the inner ends of the rods of the hanger any tendency of the gate to sag may be counteracted.

It will be seen that the gate is simple and inexpensive in construction and that it is readily reversible to permit it to open in either direction.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

1. The combination of an upright, provided with bearing brackets, a hanger comprising a post journaled in the said bearing brackets, a horizontal rod extending from the upper portion of the post, the bracing rod and the vertical spindle connecting the rods at their outer ends, a bearing bracket mounted on said spindle and provided with a roller, a pair of rollers located at opposite sides of the post, and a sliding gate mounted on the rollers and adapted to be reversed to arrange it at either side of the hanger, substantially as described.
2. The combination of a hanger frame, comprising a vertical post journaled in suitable

bearings, and the horizontal and inclined rods extending from the post and adjustably secured to the same, a bearing bracket journaled at the outer ends of the rods, a roller mounted on the bearing bracket, a pair of rollers mounted on said post and located at opposite sides thereof, and the reversible sliding gate mounted on said rollers, substantially as described.

3. The combination of an upright, provided with L-shaped bearing brackets, a hanger comprising a vertical post journaled in the bearing brackets, and the horizontal and inclined rods adjustably secured at their inner ends to the post, a bearing bracket mounted on the outer ends of the rods and provided with a roller, a pair of rollers mounted on the post and located at opposite sides thereof, and a sliding gate arranged on the rollers, substantially as described.

4. The combination of a hanger, provided with a post, a roller mounted on the outer end of the hanger, a pair of rollers arranged at opposite sides of the post, a reversible sliding gate mounted on the rollers, and the L-shaped arms arranged at opposite sides of the post and located beneath the rollers thereof and engaging the gate, substantially as described.

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

JOSEPH H. JACKSON.

Witnesses:

G. W. CONNELL,
THOMAS V. MEEK.