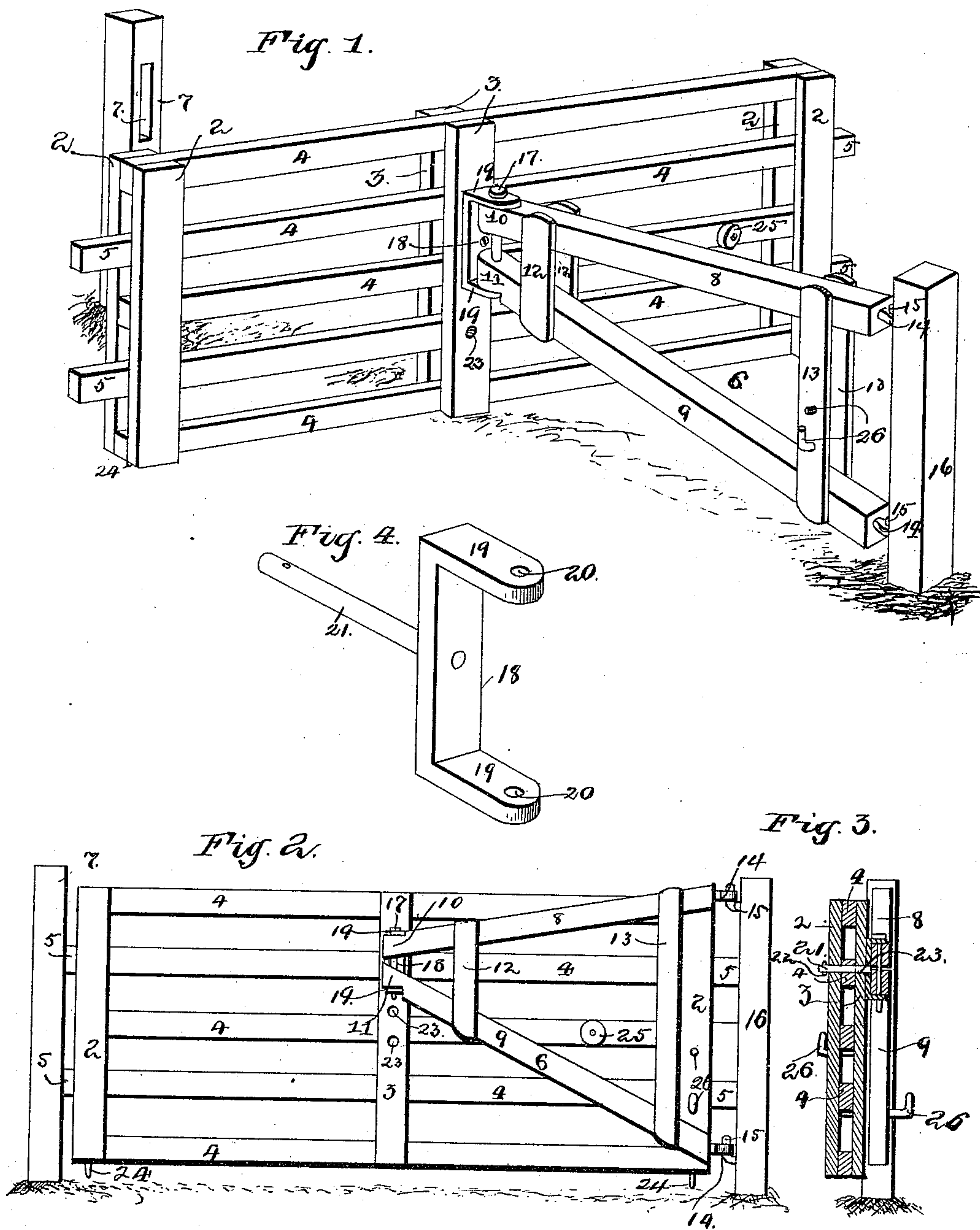


(No Model.)

S. D. HATHAWAY.
GATE.

No. 439,005.

Patented Oct. 21, 1890.



Witnesses

— Horace K. Seitz —
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By his Attorneys,

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UNITED STATES PATENT OFFICE.

SELIM D. HATHAWAY, OF GILEAD, MICHIGAN.

GATE.

SPECIFICATION forming part of Letters Patent No. 439,005, dated October 21, 1890.

Application filed July 10, 1890. Serial No. 358,310. (No model.)

To all whom it may concern:

Be it known that I, SELIM D. HATHAWAY, a citizen of the United States, residing at Gilead, in the county of Branch and State of Michigan, have invented a new and useful Gate, of which the following is a specification.

The invention relates to improvements in swinging gates.

The object of the present invention is to provide a simple and inexpensive gate adapted to be readily opened without necessitating a person walking more than a few steps and capable of being passed over or pushed through drifts of snow and of being elevated for the passage of small animals.

A further object of the invention is to provide means for readily retaining the gate at any desired point and prevent it swinging to or farther open.

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 being shown open. Fig. 2 is a side elevation, the gate being closed. Fig. 3 is a vertical sectional view. Fig. 4 is a detail view of the bracket.

Referring to the accompanying drawings, 1 designates a gate of any desirable construction, consisting, preferably, of vertical bars 2 and 3 and horizontal rails 4, secured between the vertical bars 2 and 3, which are arranged in pairs, and two of the horizontal rails 4 have their ends 5 extending beyond the end bars or stiles of the gate to enable the latter, which is centrally hinged to a hanger 6, to be turned end for end and bring either of its ends into engagement with a latch-post 7, the projecting ends 5 fitting in the recess 7 thereof. The hanger 6 is triangular, and is composed of inclined bars 8 and 9, which have their ends 10 and 11 secured together by strips 12, and vertical bars 13, arranged upon opposite sides of the inclined bars and connecting the same near their inner ends, which are provided with eyes 14, that engage suitable pintles 15 of a hinge-post 16; but the hanger may, if desired, be hinged to the post 16 by the ordinary construction of hinges or in any other suitable

manner. The outer end of the hanger 6 has hinged to it by a pin 17 a bracket consisting of a vertical portion or plate 18 and horizontal portions 19, arranged at the ends of the vertical portion and formed integral therewith, and provided with perforations 20 to receive the pin 17, that hinges the bracket to the ends of the inclined bars, and the said ends 10 and 11 of the inclined bars 8 and 9 are provided with vertical registering perforations to receive the pin 17 and are rabbeted to provide square shoulders, against which the horizontal arms or portions 19 of the bracket bear, and the said bracket has its vertical portion provided with a pivot 21, extending horizontally from the center of the vertical portion and adapted to receive the gate 1, and provided with a key 22 to secure the gate on the pivot. The pivot 21 passes through registering perforations 23 of the central vertical bars of the gate, thereby centrally supporting the gate and effectually preventing any strain upon its parts, and the said central bars 3 are provided with a series of perforations 23, which enable the gate to be readily elevated to counteract the gradual deviation of the hinge-post from the perpendicular and to permit the passage of small animals and enabling cattle readily to be separated.

The gate by being pivoted to the end of the hanger can be readily swung on its pivot sufficiently to clear uneven portions of the ground, and in order to secure the gate at any desired position and prevent its accidentally closing or opening the bottom of the gate is provided at its ends with spurs 24, which readily engage the ground and hold the gate, and one side of the gate is provided with a removable weight 25, which enables the gate to be balanced or unbalanced, as desired.

The gate swings vertically on the pivot 21 and horizontally on the pin 17, that hinges the bracket to the end of the hanger, and the gate may be readily turned to bring either end into engagement with the recess 7, and in order to lock the gate the end farther from the latch-post is brought into engagement with hooks 26, arranged upon opposite sides of the vertical bars of the hanger and having their shanks extending through the same and their heads adapted to engage one of the

horizontal rails of the gate, and the latter may be readily sprung from engagement with the hooks when it is desired to open the gate.

It will readily be seen that the gate is simple and inexpensive in construction and is centrally hung, so that all strain is eliminated; that it can be readily opened and closed without moving more than a few steps, and may have either of its ends engage the latch-post; that it can be readily elevated to prevent sagging and to permit the passage of small animals, and that it can be readily lifted over or pushed through drifts of snow.

The hooks 26 are arranged beneath and adapted to support the adjacent horizontal rail of the gate, and the latch-post supports the opposite end of the gate, and it will be seen that when the gate is closed both ends are supported and all strain is taken from the outer end of the hanger and the gate is prevented from sagging.

What I claim is—

1. The combination of the post, the hanger hinged to the post, the bracket hinged to the outer end of the hanger and provided with a pivot, and the gate centrally mounted upon the pivot, substantially as described.

2. The combination of the post, the hanger hinged to the post and provided with the hooks 26, arranged upon opposite sides, and the gate hinged to the hanger at a point intermediate of its ends and adapted to swing upon either side of the hanger and engage the hooks thereof, substantially as described.

3. The combination of the post, the hanger hinged to the post, the bracket hinged to the

end of the hanger and provided with a horizontal pivot, and the gate provided intermediate of its ends with a vertical series of perforations adapted to receive the pivot, substantially as described.

4. The combination of the post, the hanger hinged to the post, the gate pivoted intermediate of its ends to the hanger and provided with spurs arranged to engage the ground to hold the gate at any desired point, and the removable weight, substantially as described.

5. The combination of the post, the hanger hinged to the post, the bracket comprising the vertical portion and the horizontal portions or arms and provided with the horizontal pivot, the pin passing through the horizontal portions or arms and hinging the bracket to the end of the hanger, and the gate mounted upon the pivot, substantially as described.

6. The combination of the hinge and latch posts, the hanger provided with supporting-hooks arranged on opposite sides, and the gate centrally hinged to the outer end of the hanger and having, when closed, one end supported by the latch-post and the other end supported by one of said hooks, substantially as described.

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

SELIM D. HATHAWAY.

Witnesses:

ANDREW J. RUSSELL,
H. J. CROOK.