No. 883,182. PATENTED MAR. 31, 1908.

F. E. ELDREDGE.

GATE.

APPLICATION FILED JULY 24, 1907.

Fig. 1.

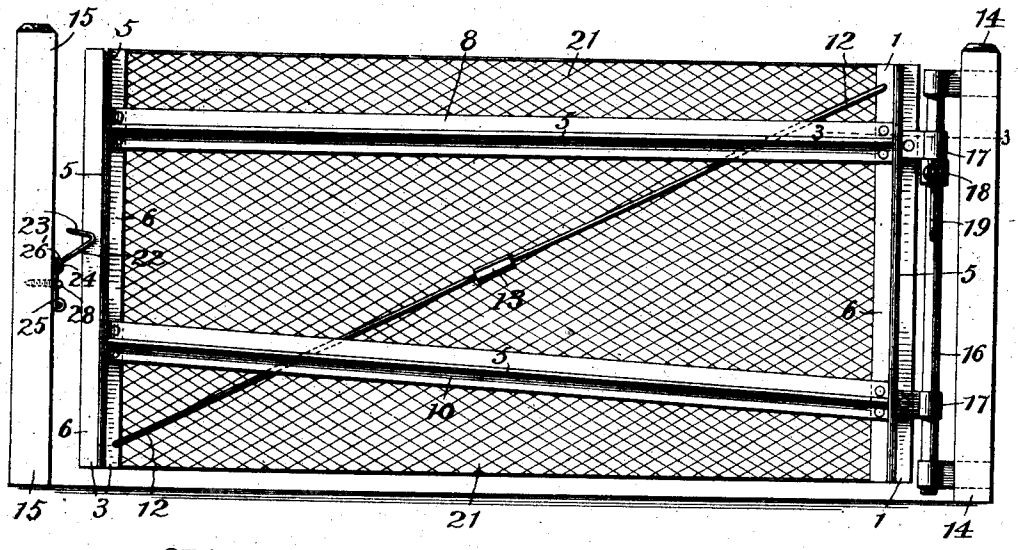


Fig. 2.

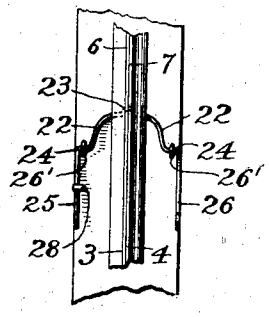


Fig. 3.

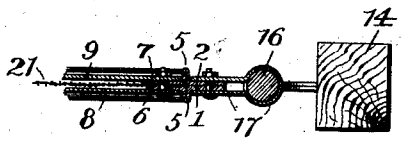
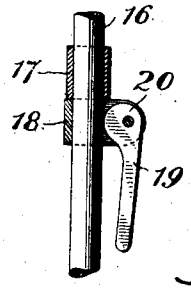


Fig. 4.



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FRANCIES EUGENE ELDREDGE, OF WAVERLY, IOWA.

GATE.

No. 883,182. Specification of Letters Patent. Patented March 31, 1908.

Application filed July 24, 1907. Serial No. 385,385.

To all whom it may concern:

Be it known that I, FRANCIES EUGENE ELDREDGE, a citizen of the United States, residing at Waverly, in the county of Bremer and State of Iowa, have invented certain new and useful Improvements in Gates, of which the following is a specification, reference being had therein to the accompanying drawing.

The invention relates to gates and one of the chief aims of the invention is to provide an improved gate construction, in which is combined the characteristics of strength, lightness and simplicity and which will be inexpensive of manufacture and can be quickly and conveniently assembled and set up.

An important novel feature of my construction resides in the particular arrangement of the stay member, whereby the supporting action or pull thereof is directly in a straight line.

Further objects of the invention are to provide improved means of a simple and efficient nature to support the gate in various positions of vertical adjustment and to provide an improved form of latch for the gate.

Other objects and advantages will appear from the annexed detailed description.

A convenient embodiment of the invention comprises the novel construction and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings: Figure 1 is a side elevation of a gate constructed in accordance with the present invention, Fig. 2 is a detail view illustrating more particularly the latch construction. Fig. 3 is a horizontal section, taken on the line 3—3 Fig. 1. Fig. 4 is a detail view of the adjustable support for the gate.

Referring to a detailed description of the drawings wherein like reference characters designate corresponding parts throughout the several views; my improved gate comprises a substantially rectangular frame including vertical side bars and top and bottom longitudinal bars. The vertical bars are made up of metallic strips or plates 1, 2, 3, 4. Each strip or plate is doubled upon itself along its middle to form a strengthening rib 5, the portions 6 and 7 being brought into alinement with each other. The strips are placed together with their ribs 5 facing outwardly, and securely fastened together preferably by bolts, which pass through the portions 6 and 7. The longitudinal top and bottom bars are composed of pairs of strips 8, 9, and 10, 11, similar in construction to the strips 1, 2, 3, 4, the strips of each longitudinal bar being arranged on opposite sides of the outer sides of portions 6 and 7 of the vertical side bars.

The top longitudinal bar is arranged horizontally while the bottom longitudinal bar extends at an upward inclination from the inner vertical side bar to the outer vertical bar and this arrangement is provided to prevent any tendency of the gate frame to sag at its forward end. For this purpose I also provide a stay rod or wire 12 provided with a turn buckle 13 so that any slack may be taken up and the gate tightened. The stay rod is connected to the upper part of the inner vertical side bar and to the lower portion of the outer vertical side bar extending diagonally and centrally of the frame directly in a straight line, the strips 8, 9, and 10 and 11, being spaced to permit the passage of the stay rod therebetween, so that the supporting action or pull of the stay is exerted directly in a straight line and in direct alinement with the vertical side bars. The metal strips or plates making up the bars of the gate are in the nature of T bars constructed in the manner set forth so that a cheap light, strong and durable structure is produced.

14 and 15 designate the posts of a gateway, the post 14 having secured thereto supports for a pintle 16 to which the gate is connected to be opened in either direction by hinge members 17 in the form of straps which are secured to the inner vertical side bar of the gate.

The hinge members 17 loosely encircle the pintle 16 and are adapted to be slid along the pintle to vertically adjust the gate in case of snow-drifts or for other reasons and in order to support the gate in various positions of vertical adjustment I provide a collar 18 adapted to be adjusted along the pintle to constitute a support for the upper hinge member of the gate, the top surface of the collar forming a bearing on which the upper hinge member rotates. Pivoted to the collar 18 is a lever 19 provided with a cam head 20 adapted to engage the pintle and lock the

collar thereto when the lever is thrown down in the position shown in Fig. 4 of the drawings.

The gate may be provided with a filler 21 of woven wire or the like, which is arranged intermediate the opposite members of the respective bars of the gate frame, said members serving to securely clamp the same in place. In this connection it is pointed out that the parts of the gate may be quickly and conveniently assembled by first laying out the members forming one side of the gate frame, arranging the filler relative thereto and securing in place the members forming the other side of the gate frame.

It will be understood that changes within the scope of the appended claims may be made in the construction and arrangement of the parts hereinbefore described without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention what I claim is:

1. A gate comprising a substantially rectangular frame including vertical end bars and top and bottom longitudinal bars, each of said vertical end bars being made up of two ribbed strips secured together with their ribs facing outwardly, and each of the longitudinal bars being made up of ribbed strips secured to the vertical end bars at the opposite sides thereof with their ribs facing outwardly.

2. A gate comprising a substantially rectangular frame including vertical end bars and top and bottom longitudinal bars, each of said vertical end bars being made up of two ribbed strips secured together with their ribs facing outwardly, and each of the longitudinal bars being made up of two ribbed strips secured to the vertical end bars at opposite sides thereof with their ribs facing outwardly and a stay rod connecting the vertical end bars and extending in a straight line diagonally of the frame between the strips forming the top and bottom longitudinal bars, said strips being spaced to permit the passage of the stay rod therebetween.

3. A gate comprising a substantially rectangular frame including vertical end bars and top and bottom longitudinal bars, each of said vertical end bars being made up of two ribbed strips secured together with their ribs facing outwardly, and each of the longitudinal bars being made up of ribbed strips secured to the vertical end bars at the opposite sides thereof with their ribs facing outwardly and abutting the ribs of the vertical end bars, said frame being adapted to and having a supporting hinge connection at one end thereof, the bottom longitudinal bar of said frame being upwardly inclined from the vertical end bar nearest the hinged connection to the outer vertical end bar of the frame to prevent sagging of the frame at its outer end.

4. A gate comprising a substantially rectangular frame including vertical end bars and top and bottom longitudinal bars, each of said vertical end bars being made up of ribbed strips secured to the vertical end bars at the opposite sides thereof with their ribs facing outwardly, and a wire filler arranged intermediate the opposite members of each of the respective bars of the frame and securely clamped therebetween.

5. In a gate, the combination of a substantially rectangular frame comprising vertical end bars and top and bottom longitudinal bars, each of said vertical end bars being cross shaped in section and made up of two ribbed strips of T-shaped form in cross section, said strips being secured together with their ribs facing outwardly and oppositely disposed, and each of the longitudinal bars being made up of ribbed strips secured to the vertical end bars at the opposite sides thereof with their ribs facing outwardly, a pintle, and hinge members connecting the gate frame with the pintle, each hinged member comprising a strip embracing the pintle and having separated extended end portions to receive therebetween one of the flat vertical portions of one of the vertical end bars.

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

FRANCIES EUGENE ELDREDGE.

Witnesses:
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J. Y. HAZLETT.