

No. 725,806.

PATENTED APR. 21, 1903.

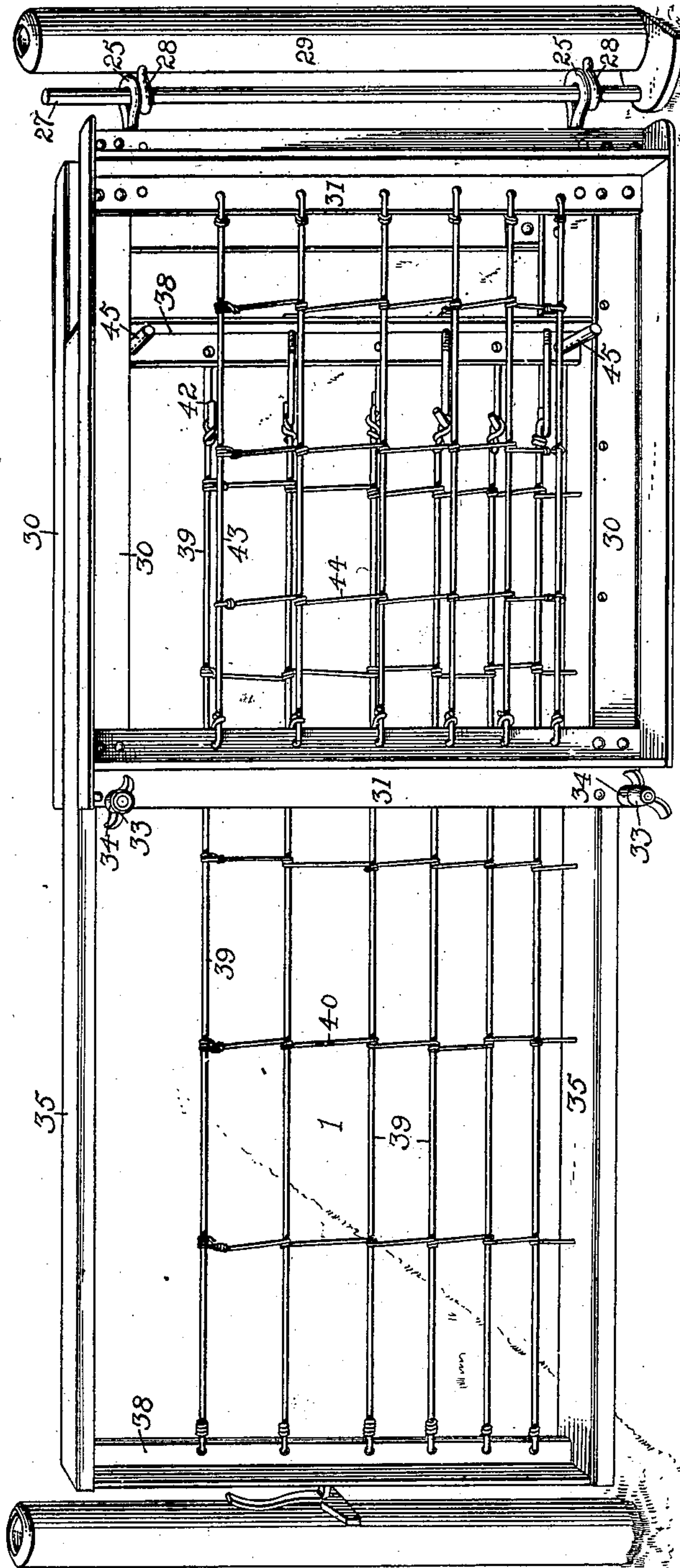
D. WARNER.
GATE.

APPLICATION FILED OCT. 31, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1



Witnesses
E. C. Stewart
H. H. Riley

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C. A. Snow & Co.
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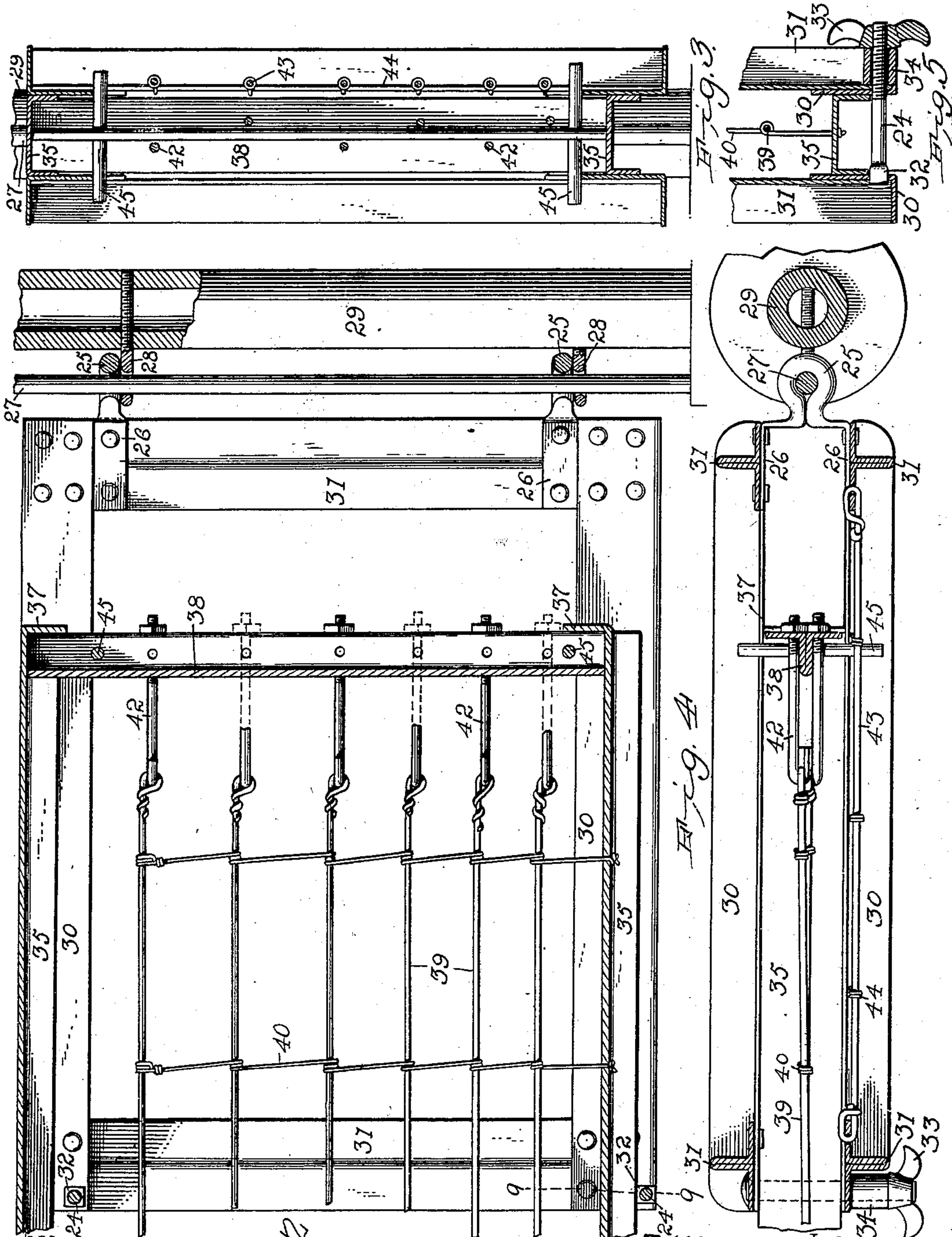
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Fig. 2

by
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UNITED STATES PATENT OFFICE.

DANIEL WARNER, OF BRONSON, MICHIGAN.

GATE.

SPECIFICATION forming part of Letters Patent No. 725,806, dated April 21, 1903.

Application filed October 31, 1902. Serial No. 129,621. (No model.)

To all whom it may concern:

Be it known that I, DANIEL WARNER, a citizen of the United States, residing at Bronson, 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 gates.

The object of the present invention is to improve the construction of gates and to provide a simple and comparatively inexpensive one, which will be strong and durable and which will be capable of longitudinal adjustment to enable it to fit gateways of different widths.

A further object of the invention is to provide a gate of this character which will also be capable of adjustment to raise its lower front corner or point to the desired elevation to enable it to clear snow-drifts and similar obstructions and to permit it to operate at the side of a hill.

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

In the drawings, Figure 1 is a perspective view of a gate constructed in accordance with my invention. Fig. 2 is a vertical longitudinal sectional view of the rear portion of the gate. Fig. 3 is a transverse sectional view of the same. Fig. 4 is a horizontal sectional view of the rear portion of the gate. Fig. 5 is a detail sectional view on the line 9 9 of Fig. 6.

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

My improved gate, which is constructed entirely of metal, comprises an inner or rear section and an outer or front section mounted to slide on the rear section for the purpose of adjusting the gate for gateways of varying widths. The inner or rear section is composed of two sides spaced apart and connected at the front end by top and bottom clamping-bolts 24 and at the rear end by upper and lower eyes 25, provided with approximately L-shaped arms 26, which are secured to the

inner faces of the sides of the rear section. The eyes 25 receive a pintle 27, which also extends through suitable eyes 28 of a hinge-post 29. Each side of the rear section is composed of horizontal top and bottom angle-bars 30 and front and rear upright angle-bars 31. The top and bottom angle-bars are L-shaped in cross-section, being composed of vertical and horizontal flanges, and the upright angle-bars are approximately T-shaped in cross-section and consist of vertical webs and laterally-extending side flanges or wings, which are secured by rivets or other suitable fastening devices to the vertical flanges of the top and bottom bars. Each clamping-bolt is provided adjacent to its head with a polygonal portion 32, arranged in a polygonal opening of one side of the rear section of the gate, and the threaded portion of the bolt receives a thumb-nut 33. A sleeve 34, which is arranged on the bolt, is interposed between the thumb-nut and the adjacent side of the rear section of the gate to enable the thumb-nut to clear the central flange or web of the adjacent upright bar. The upright bar is preferably constructed of sheet metal or similar material, which is doubled to form the central flange or web and which is bent outward from the same in opposite directions to form the side flanges.

The sides of the rear hinged section of the gate are spaced apart to receive an adjustable front section, which is composed of top and bottom bars 35, constructed of stout sheet metal or other suitable material and provided with longitudinal side flanges 36, depending from the bars, which are arranged horizontally, as clearly shown in Fig. 5. The top and bottom bars are provided at their ends with transverse flanges 37, which are secured to upright end bars 38, T-shaped in cross-section and provided with inner centrally-arranged vertically-disposed webs or flanges and having laterally-extending wings or flanges presenting flat outer faces to receive the transverse flanges of the top and bottom bars of the front section. The upright centrally-arranged webs or flanges are provided with suitable perforations and are adapted to receive horizontal wires 39, which form the body portion of the section of a gate

and which are preferably connected by upright wires 40; but any other form of wire fabric or fencing may be employed for this purpose, and suitable wire-stretchers 42 are preferably arranged at one end of the section. The upright end bars of the front section are preferably constructed similar to the upright bars of the rear section and are formed by doubling a piece of sheet metal or other suitable material to provide the central web or flange and then bending the side portions of it to form the side flanges or wings. One side of the rear section is provided with horizontal wires 43, connected by upright wires or stays 44. The top and bottom bars of the front section rest upon the upper and lower clamping-bolts of the rear section when the front section is in a horizontal position, and the said front section is firmly clamped between the sides of the rear section by the clamping-bolts. The rear end bar of the front section is provided with upper and lower lateral projections 45, preferably formed by pins extending through perforations of the central web or flange of the rear upright bar and located adjacent to the edges of the vertical flanges of the top and bottom angle-bars of both sides of the rear section. This construction permits the front section to be adjusted longitudinally to vary the length of the gate to adapt it for gateways of different widths, and it also permits the front section to be adjusted vertically to raise the lower front corner of the gate to enable the latter to clear obstructions and to operate as before described. The angle top and bottom bars of the rear section present flat faces to the bars of the front section, and the latter is firmly clamped in its adjusted position. The pins which form the lateral projections are preferably threaded at one side of the center, as illustrated in Fig. 7 of the drawings, to enable them to be readily screwed into perforations of the web of the rear upright bar.

It will be seen that the gate is exceedingly simple and inexpensive in construction, that it possesses great strength and durability, and that it is capable of being readily adjusted to vary it in length and to arrange its lower front corner or point at different elevations to adapt the gate to gateways of dif-

ferent widths and to enable the gate to clear obstructions.

It is to be understood that I do not limit or confine myself to the details herein shown and described, as various changes may be made therein without departing from the spirit or scope of my invention.

What is claimed is—

1. A gate comprising a rear section composed of two sides spaced apart to form an opening, eyes provided with arms secured to the said sides and spacing the same, adjustable clamping devices connecting the front portions of the sides, and an adjustable front section arranged in the space between the sides of the rear section, substantially as described.

2. A gate comprising a rear section composed of two sides spaced apart to provide an opening and provided with top and bottom bars and having upright connecting-bars, means for hinging the rear section, upper and lower clamping-bolts, connecting the front portions of the sides, and a front section arranged in the space between the sides of the rear section and adapted to rest upon the clamping-bolts and provided at its rear end with lateral projections located adjacent to the top and bottom bars of the sides of the rear section, substantially as described.

3. A gate comprising a rear section composed of two sides spaced apart and provided with flanged top, bottom and end bars, eyes provided with projecting arms secured to the inner faces of the sides of the rear section, upper and lower clamping-bolts passing through the sides of the rear section at the front end thereof, and an adjustable front section composed of flanged top and bottom bars and connecting upright bars, said front section being arranged to rest upon the clamping-bolts and provided at its rear end with lateral projections arranged at the top and bottom of the rear section, 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.

DANIEL WARNER.

Witnesses:

R. D. STRANG,
C. M. VAN EVERY, Sr.