

(No Model.)

2 Sheets—Sheet 1.

A. F. SPENCER.
FOLDING GATE.

No. 509,559.

Patented Nov. 28, 1893.

Fig. 1.

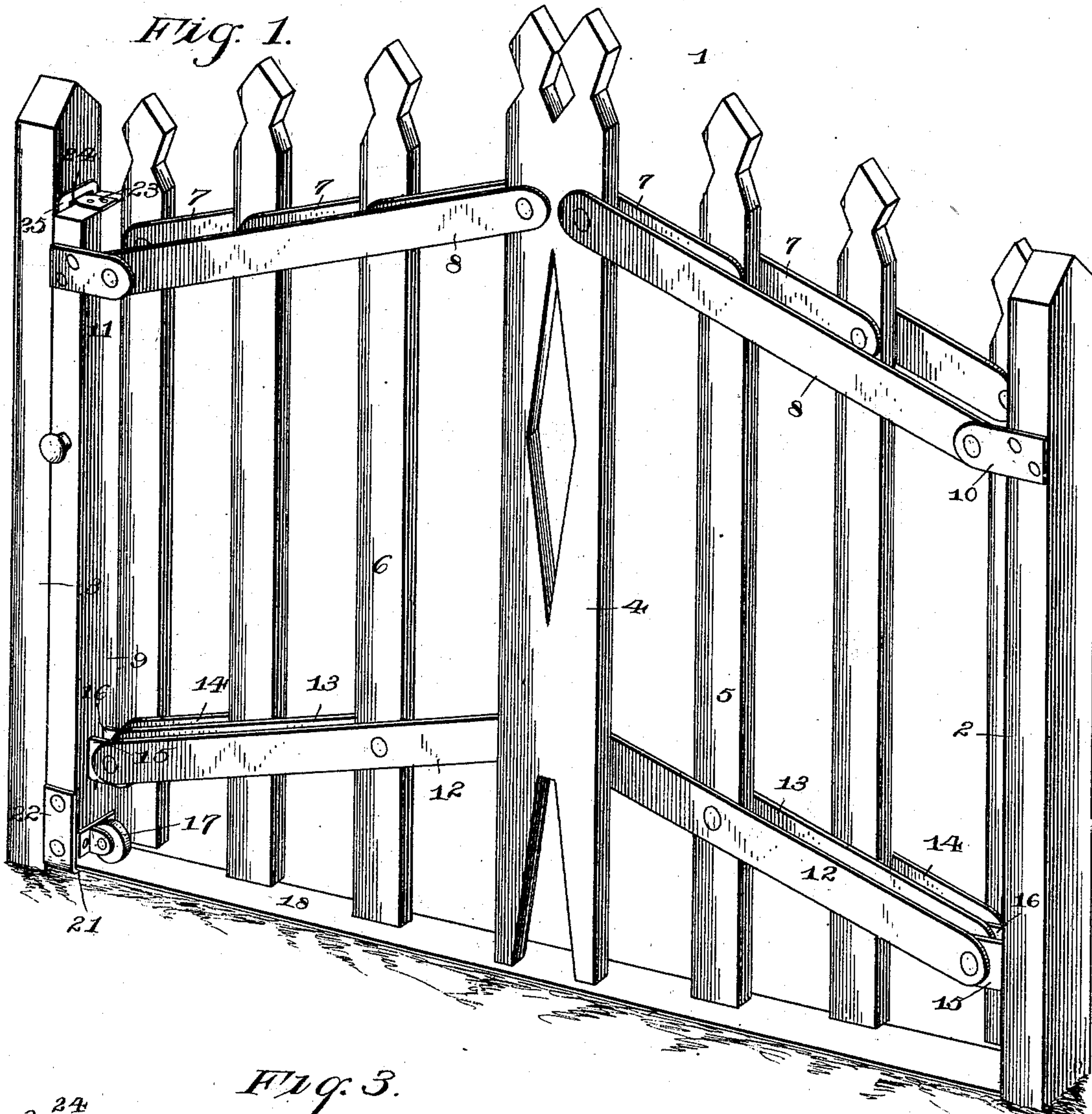


Fig. 3.

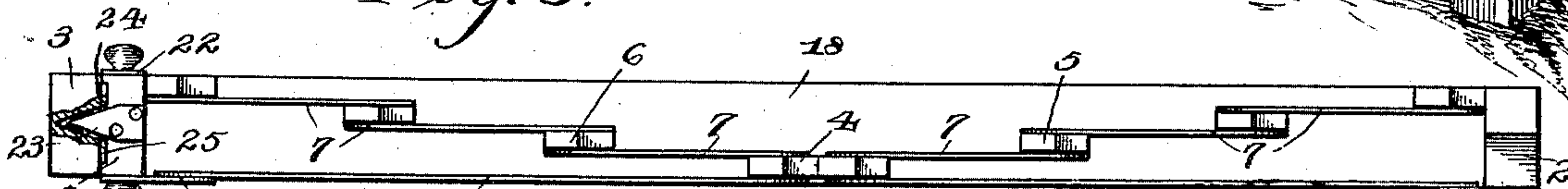
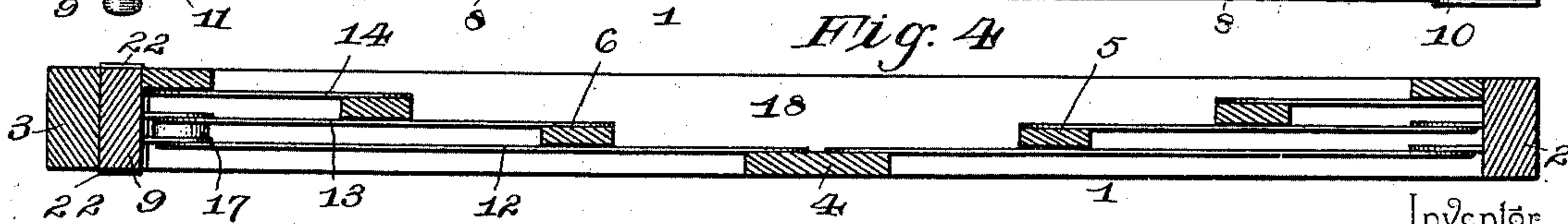


Fig. 4



Inventor

Albert F. Spencer.

Witnesses

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H. F. Riley

By his Attorneys.

C. A. Snow & Co.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

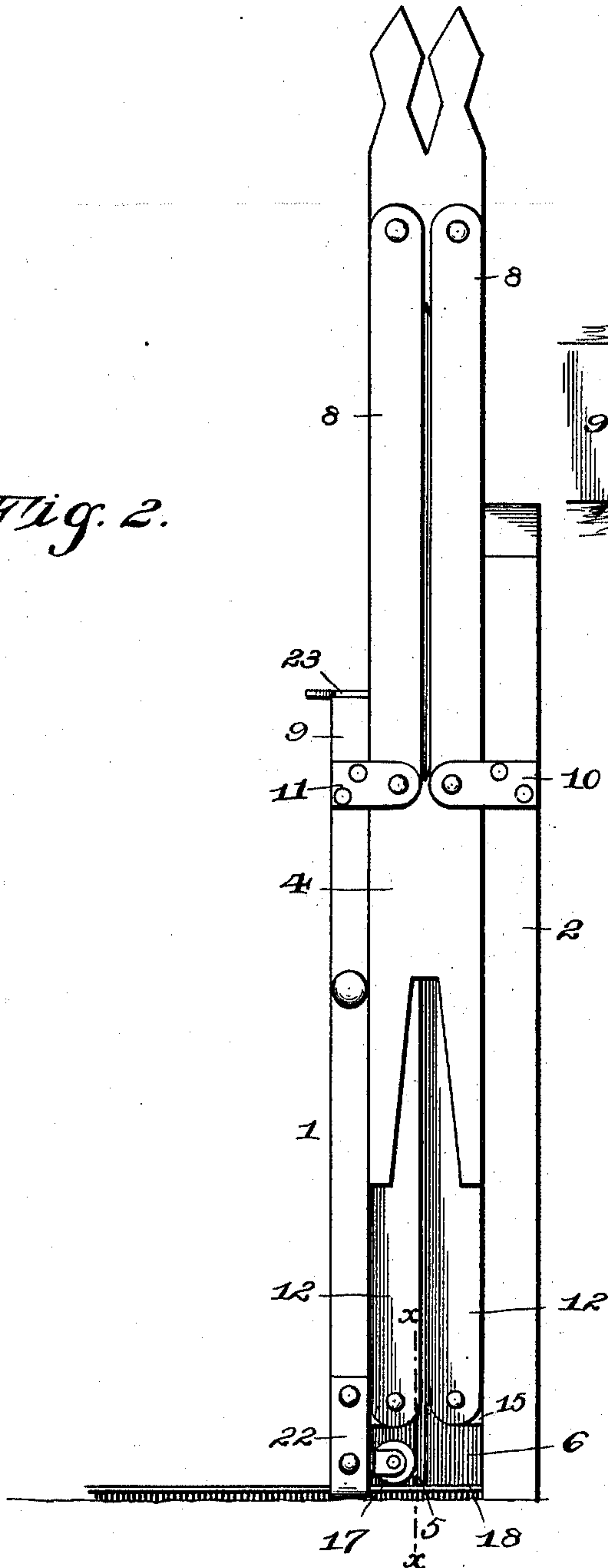


Fig. 5.

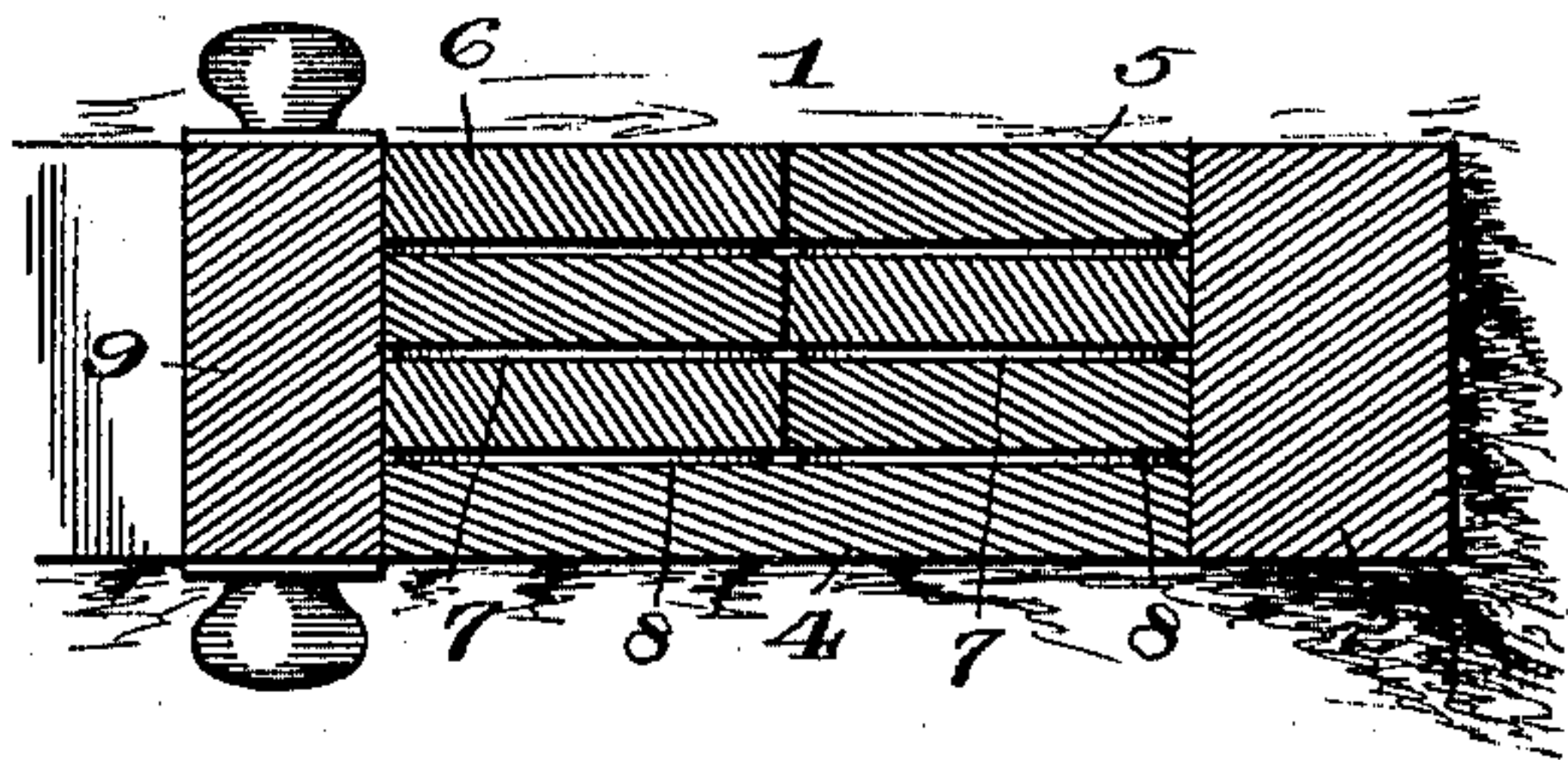
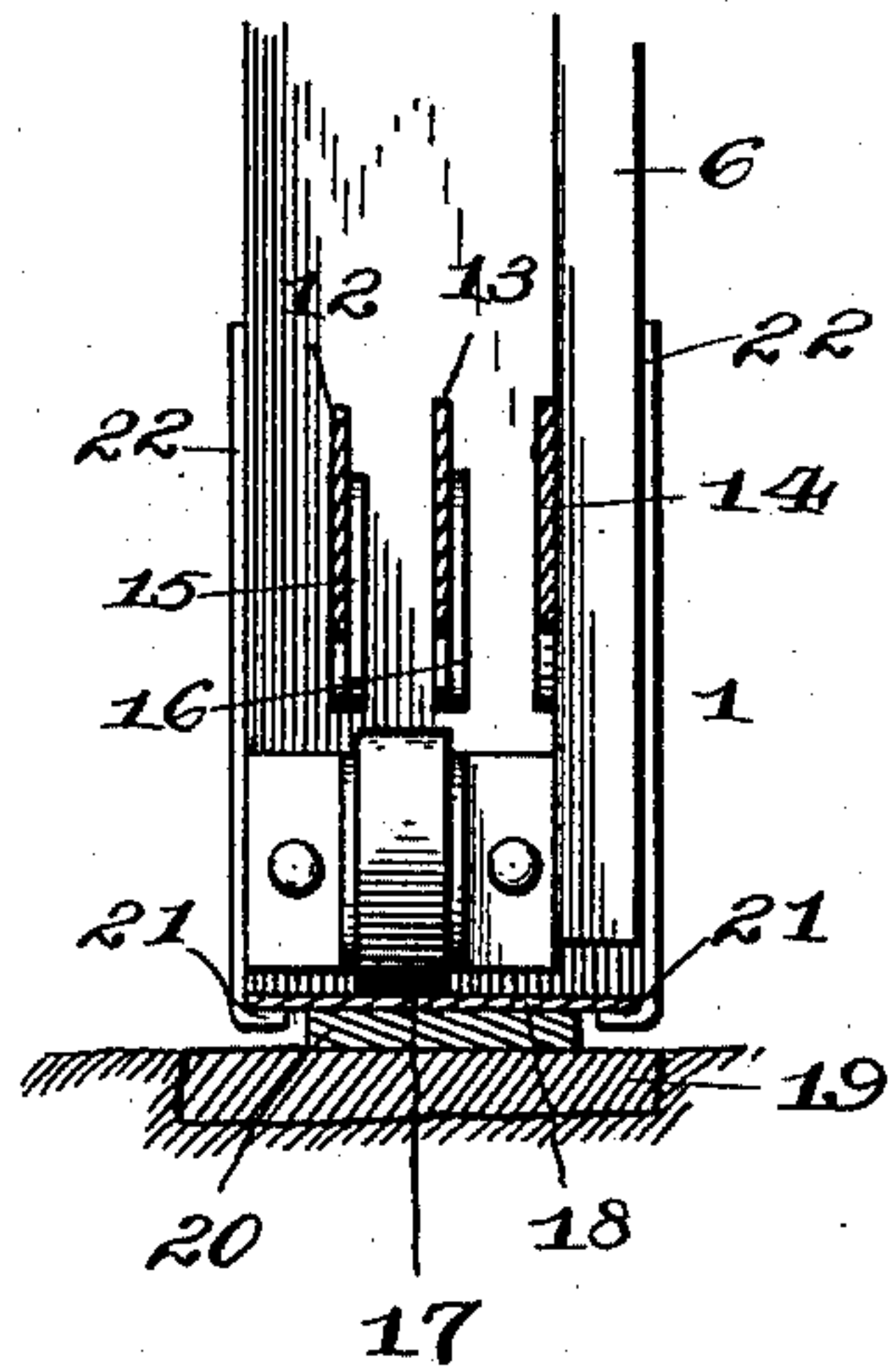


Fig. 6.



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UNITED STATES PATENT OFFICE.

ALBERT F. SPENCER, OF SIDNEY, WASHINGTON.

FOLDING GATE.

SPECIFICATION forming part of Letters Patent No. 509,559, dated November 28, 1893.

Application filed August 22, 1893. Serial No. 483,750. (No model.)

To all whom it may concern:

Be it known that I, ALBERT F. SPENCER, a citizen of the United States, residing at Sidney, in the county of Kitsap and State of Washington, have invented a new and useful Folding Gate, of which the following is a specification.

The invention relates to improvements in gates.

10 The object of the present invention is to improve the construction of gates and to provide a simple and inexpensive one, which will be especially adapted for use in banks, stores, and similar places, besides out door
15 use, and which when open will occupy a very small amount of space.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated
20 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
25 side elevation the gate being open. Fig. 3 is a plan view, the gate being closed. Fig. 4 is a horizontal sectional view of the same. Fig. 5 is a similar view the gate being open. Fig. 6 is a detail sectional view on line $x-x$ of
30 Fig. 2.

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

1 designates a folding gate connected to a
35 hinge post 2 and adapted when closed to engage a latch post 3 and composed of a central picket 4 and inner and outer series of side pickets 5 and 6, the pickets of each series being arranged in different vertical planes, and
40 connected by pivoted plates, an arrangement whereby the gate is adapted to fold much more compactly, and to occupy much less space when folded than the ordinary folding gate. The upper portions of the pickets are
45 connected by short plates 7, which are arranged, at each series of pickets, in different vertical planes, and are pivoted to the adjacent faces of the pickets and are adapted to fold between the pickets. The top of the gate
50 is also provided with supplemental pivoted bars 8 extending from the center picket 4 to the hinged post 2 and to an end bar 9 of the

gate, which are provided with leaf plates 10 and 11. The lower portions of the pickets are connected by pivoted bars or links 12, 13 and
55 14; the bar 14 of the series 5 extends from the picket, which is adjacent to the hinge post and which is secured to the same; and the other bars 12 and 13 of the series 5 extend from leaf plates 15 and 16 of the hinge post.
60 The bars 12, 13 and 14 of the series 6 of pickets are arranged similarly to those of the series 5 of pickets; the shortest bar is connected to the picket which is adjacent to the end bar 9 of the gate, and which is secured
65 to the same; and the other bars are connected to leaf plates 15 and 16 of the end bar of the gate. The pickets of each of the series 5 and 6 fold respectively against the hinge post and the end bar 9 of the gate, and occupy the
70 space adjacent to the pickets which are secured to the hinge post and the end bar, and each series folds to the width of one picket; and the central picket is a double one and is twice the width of the other pickets and fits
75 snugly in the space between the hinge post and the end bar 9 of the gate when the latter is folded. The end bar 9 of the gate is provided with a roller 17, which is arranged on a track bar 18 to enable the gate to be readily
80 opened and closed without friction. The track plate 18 is mounted on a sill 19 and projects laterally from a spacing and supporting strip 20 to form opposite ways, which are engaged by inwardly extending lugs 21 of plates
85 22 secured to the lower end of the bar 9 of the gate.

The gate is provided with a latch plate 23 secured to the top of the bar 9 and having a triangular projection which engages a slot 24
90 of a keeper 25 of a latch post and a recess of the latter.

It will be apparent that the gate is simple and comparatively inexpensive in construction, and that the arrangement of the pickets
95 is such that the gate is adapted to fold compactly into a small space.

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

What I claim is—

1. A folding gate comprising the opposite

series of pickets arranged in different vertical planes and the pickets of each series being adapted to fold to the width of one picket, a central picket, and bars pivotally connecting the pickets, substantially as described.

2. A gate comprising a hinge post arranged at one end and a vertical bar located at the other end, the opposite series of pickets located adjacent to the hinge post and the bar, the pickets of each series being adapted to fold to the width of one picket, a central picket of twice the width of the other pickets and arranged between the series of pickets, and the bars pivotally connecting the pickets together and to the post and the vertical bar, substantially as described.

3. In a gate, the combination of the hinge post and a vertical bar provided at their lower ends with the leaf plates 15 and 16 and having at their upper ends the leaf plates 10 and 11, the double central picket, the opposite series of pickets, the pickets of each series being arranged in different vertical planes, the short pivoted plates connecting the pickets

near their upper ends, the supplemental pivoted bars 8 extending from the top of the central picket to the leaf plates 10 and 11, and the lower pivoted bars 12, 13 and 14 extending from the lower leaf plates 15 and 16 and from the end ones of the pickets and connecting the latter, substantially as described.

4. The combination of a track plate having laterally projecting edges forming ways, a folding gate provided at its free end with a roller arranged on the track plate, and the plates secured to the gate and arranged on opposite sides of the track plate and having inwardly extending lugs engaging the projecting edges of said track plate, 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.

ALBERT F. SPENCER.

Witnesses:

AUGUST J. LINDALL,
THOMAS CLINE.