

No. 608,330.

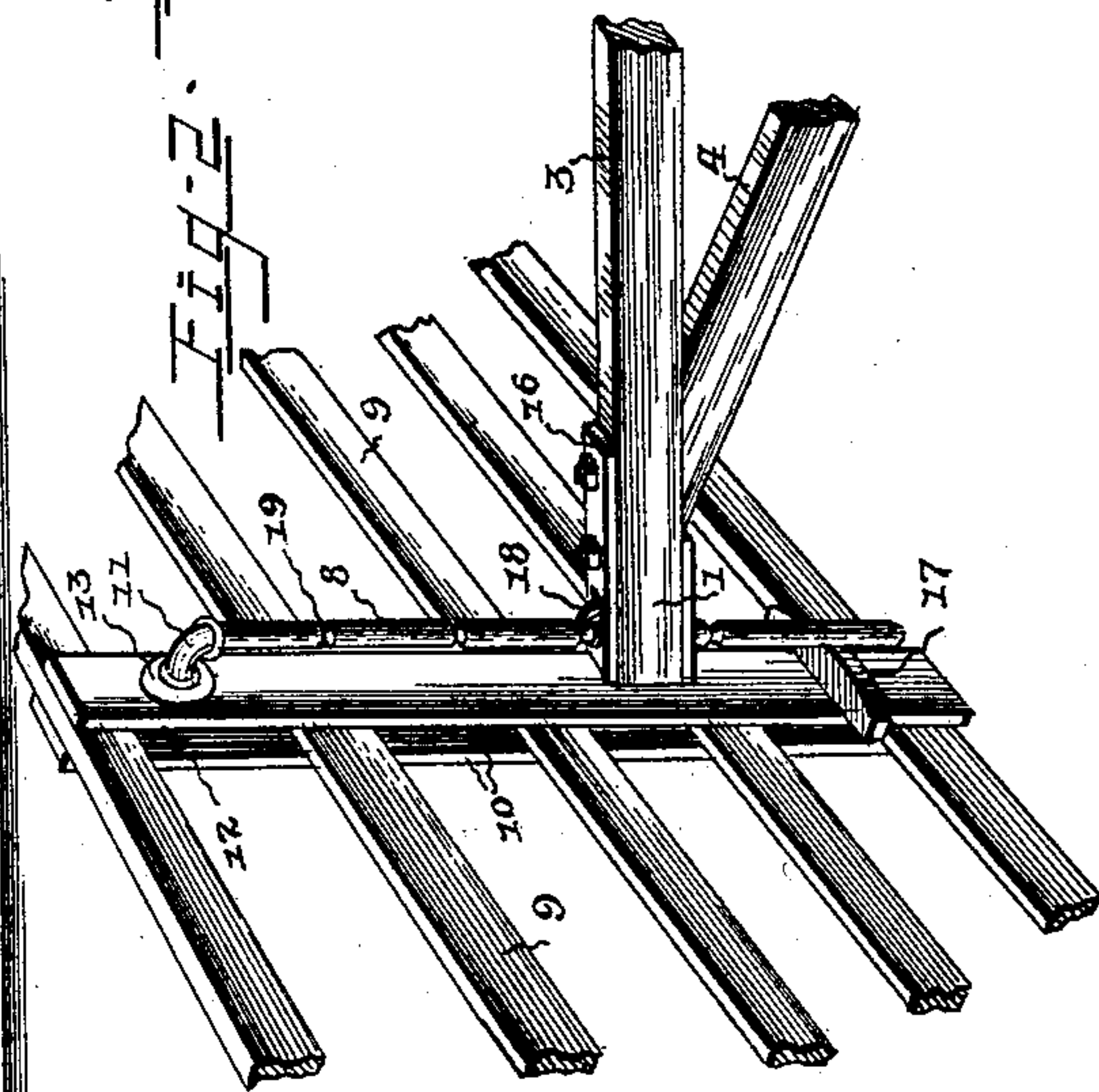
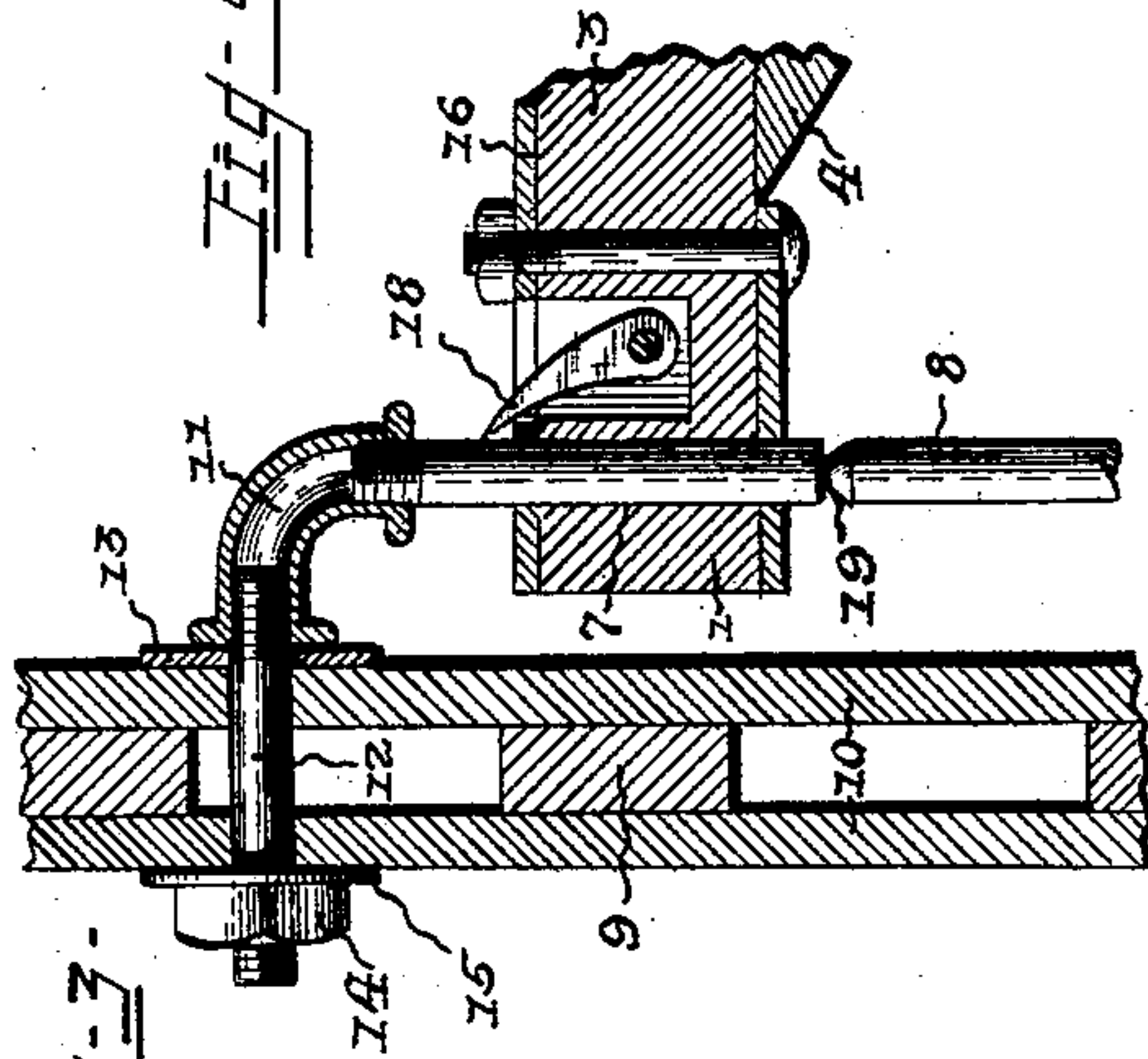
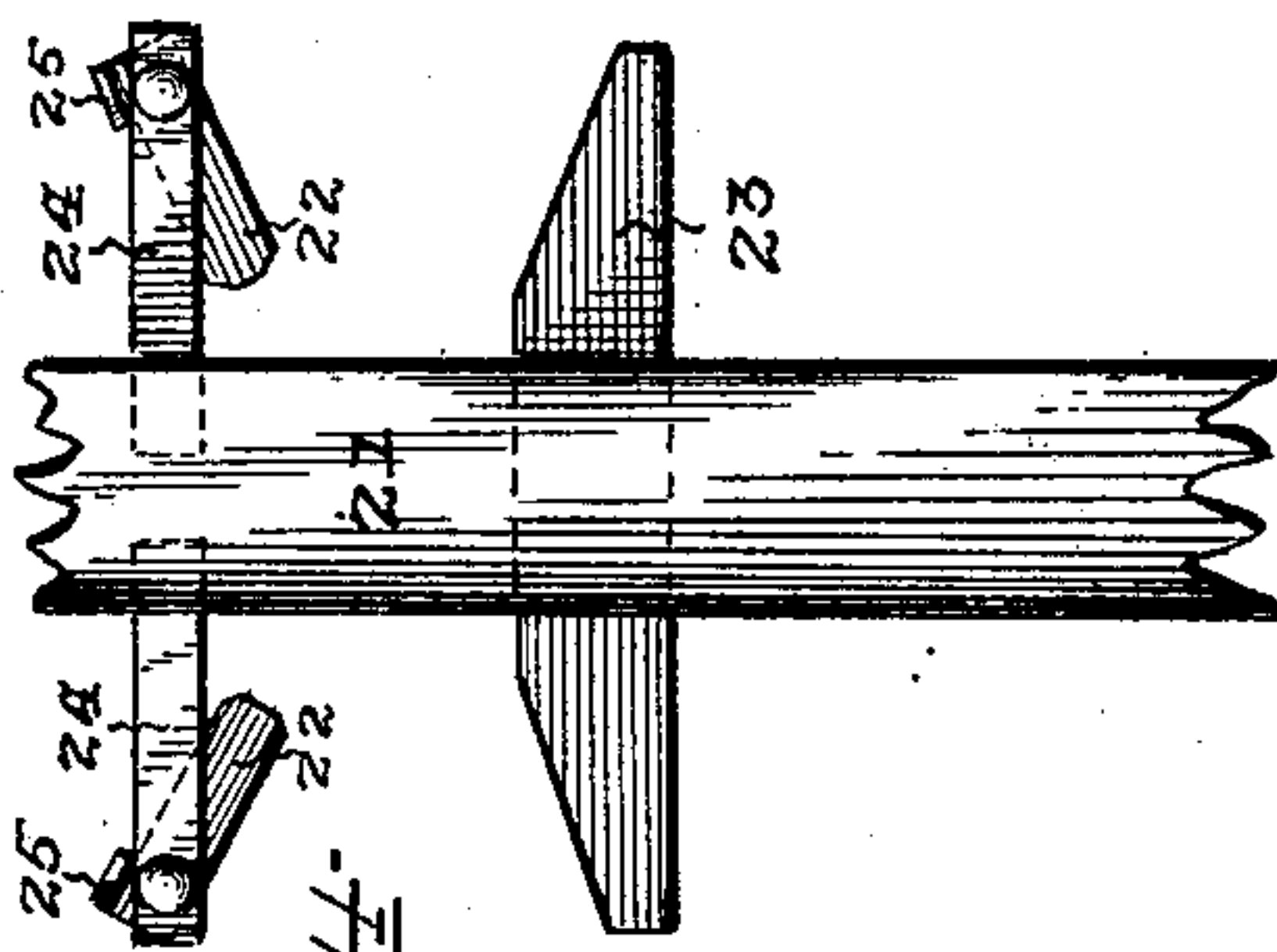
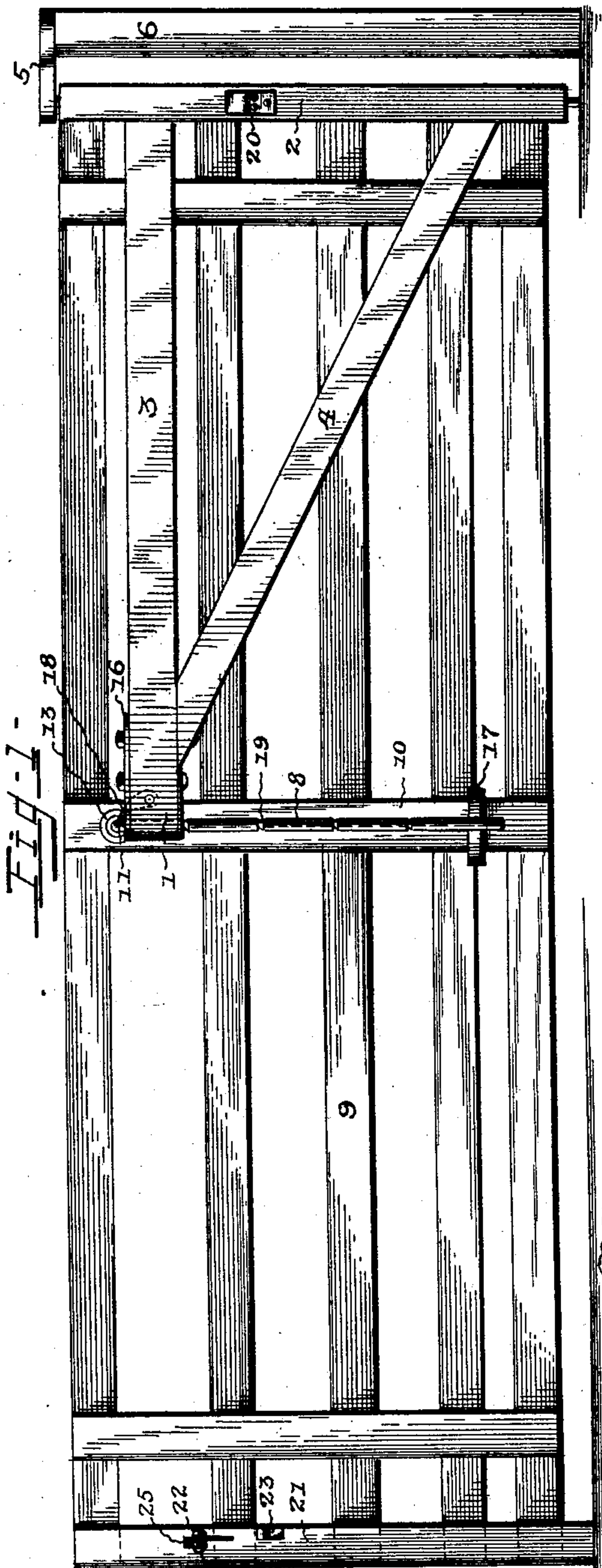
Patented Aug. 2, 1898.

E. J. HICKS.

GATE.

(Application filed Mar. 9, 1898.)

(No Model.)



Witnesses:-

C. J. Young.
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UNITED STATES PATENT OFFICE.

EDWIN J. HICKS, OF FALLS CITY, NEBRASKA.

GATE.

SPECIFICATION forming part of Letters Patent No. 608,330, dated August 2, 1898.

Application filed March 9, 1898. Serial No. 673,195. (No model.)

To all whom it may concern:

Be it known that I, EDWIN J. HICKS, a citizen of the United States, residing at Falls City, in the county of Richardson and State of Nebraska, 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 swinging gates and to provide a simple and comparatively inexpensive one adapted to be readily opened without walking more than a few steps and capable of being adjusted vertically to clear snow-drifts and to afford a passage for small animals.

Another object of the invention is to provide a gate which may be readily tilted to enable it to be readily passed over obstructions.

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

In the drawings, Figure 1 is an elevation of a gate constructed in accordance with this invention, the gate being in its lowermost position. Fig. 2 is a detail perspective view of a portion of the gate and the swinging frame or hanger, the former being elevated. Fig. 3 is a vertical sectional view illustrating the manner of mounting the gate on the hanger. Fig. 4 is a detail view illustrating the construction of the latch.

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

1 designates a substantially triangular swinging frame or hanger consisting of a vertical pintle-bar 2, a horizontal top bar 3, and an inclined brace 4, extending from the lower portion of the vertical pintle-bar to the outer portion of the horizontal top bar. The vertical bar 2, which is provided at its ends with suitable journals or pintles, is stepped in a suitable bearing and has its upper journal or pintle arranged in a bearing-opening of an arm 5, extending horizontally from the top of a post 6.

The swinging frame or hanger is provided at the outer end of the horizontal bar 3 with a vertical perforation 7, receiving a vertically-

adjustable rod 8, which is connected with and adapted to support a gate 9. The gate 9, which may be constructed in any suitable manner, is preferably composed of vertical bars and horizontal bars or rails, and it is provided between its ends with intermediate bars 10, with which the vertically-adjustable rod 8 is connected.

The rod 8, which is preferably solid, has its upper threaded end screwed into one arm of an L-shaped coupling 11, which connects the rod 8 with a horizontal pivot or pintle 12, passing through the bars 10 of the gate and adapted to permit the latter to be tilted vertically, so that the gate may be readily passed over a snow-drift or other obstruction.

The horizontal arm of the coupling 11 forms a shoulder against which abuts a disk or washer 13, which is interposed between the coupling and the gate, and the outer portion of the horizontal pivot 12, which may be either tubular or solid, is threaded to receive a nut 14, a disk or washer 15 being interposed between the nut and the gate, as clearly illustrated in Fig. 3 of the accompanying drawings.

The upper face or edge of the horizontal bar 3 of the hanger is reinforced by a plate 16, and the vertical rod 8, which is arranged parallel with the adjacent bar 10 of the gate, is supported at its lower end by a block 17, secured to the gate and interposed between the same and the rod, as clearly shown in Fig. 2 of the drawings.

The gate, which is adapted to tilt on the horizontal pivot, is also capable of swinging on the vertical rod 8 to bring it at either side of the swinging frame or hanger, as will be readily understood, and it is secured at any desired vertical adjustment by a pawl or dog 18, pivotally mounted on the frame or hanger 1 at the upper edge of the bar 3 and adapted to engage any one of a series of annular grooves or shoulders 19, formed at intervals in the rod 8. The annular shoulders or grooves permit the rod to be partially rotated on the hanger or frame without disengaging the pawl 18. When the gate is elevated, it is adapted to swing clear of snow-drifts and other obstructions, and it will then afford a passage for small animals.

In opening the gate it may be swung on the pivots or pintles of the swinging frame or

hanger 1 similar to an ordinary gate, or it may be partially opened by swinging it on the vertical rod 8, the former mode of operation being employed when it is desired to provide
 5 a passage for a team or machine and the latter being adapted to afford a passage-way for a person on foot or on horseback. In swinging the gate upon the rod 8 it may be opened and closed without moving more than a few
 10 steps to lock and unlock it.

The swinging frame or hanger is provided at opposite sides with a pair of brackets 20, consisting of plates secured to opposite sides of the bar 2 and provided with upwardly-extending L-shaped arms adapted to receive
 15 and hold a horizontal bar or rail of the gate and secure the latter to the hanger. The outer end of the gate is secured to a latch-post 21 by a pair of pivoted latches 22 and a horizontal supporting-piece 23. The supporting-piece 23, which is secured to the latch-bar in a recess thereof, projects from opposite sides of the same and has upper inclined
 25 edges to direct the gate into engagement with the latches. The latches, which are located above the horizontal supporting-piece 23, are pivotally mounted on the ends of a horizontal rod 24 and extend above the same, being supported in an inclined position by lugs or
 30 flanges 25, extending from the upper end of the latches and arranged to engage the upper edge of the rod 24. The latches are maintained normally in an inclined position, as clearly shown in Fig. 4 of the accompanying
 35 drawings, and are adapted to permit the gate to pass them readily in latching it.

The invention has the following advantages: The gate, which is simple and comparatively inexpensive in construction, is adapted
 40 to be readily operated to open and close it, and it is capable of swinging on the pintle of the frame or hanger and on the rod at the outer end thereof. It is also adapted to be tilted on the horizontal pivot or pintle at the
 45 upper end of the vertical rod, and it is capable of vertical adjustment to enable it to swing clear of obstructions and to afford a passage for small animals.

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

What I claim is—

1. The combination of a swinging frame or hanger provided at its outer end with a ver-
 55 tical opening, a gate, a vertically-adjustable rod arranged in the opening of the hanger, disposed parallel with the gate and provided with a horizontal pivot or pintle supporting the gate and permitting the same to tilt on
 60 it, a block mounted on the gate and interposed between it and the lower end of the rod, and means for securing the rod at the desired adjustment, substantially as described.

2. The combination of a swinging frame or
 65 hanger, a gate, a pawl or dog mounted on the swinging frame or hanger, and a vertically-adjustable rod journaled on the swinging frame or hanger and provided with a horizontal pivot receiving and supporting the
 70 gate, said rod being provided at intervals with annular shoulders adapted to be engaged by the pawl or dog, whereby the rod may be partially rotated without disengaging the pawl or dog, substantially as described. 75

3. The combination of a swinging frame or hanger, a gate, a vertically-adjustable rod mounted on the swinging frame or hanger, an L-shaped coupling connected with the upper
 80 end of the rod, a horizontal pivot or pintle extending from the coupling and receiving the gate, a fastening device mounted on the outer end of the horizontal rod or pivot and retaining the gate thereon, a block mounted on the gate and interposed between the same
 85 and the lower end of the rod, and a dog carried by the frame or hanger and engaging the rod to support the gate at the desired elevation, substantially as described.

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

EDWIN J. HICKS.

Witnesses:

A. GRAHAM,
 E. A. MAUST.