

No. 715,174.

Patented Dec. 2, 1902.

F. M. STURGIS.
END GATE HANGER FOR WAGONS.
(Application filed Oct. 9, 1902.)

(No Model.)

Fig. 1.

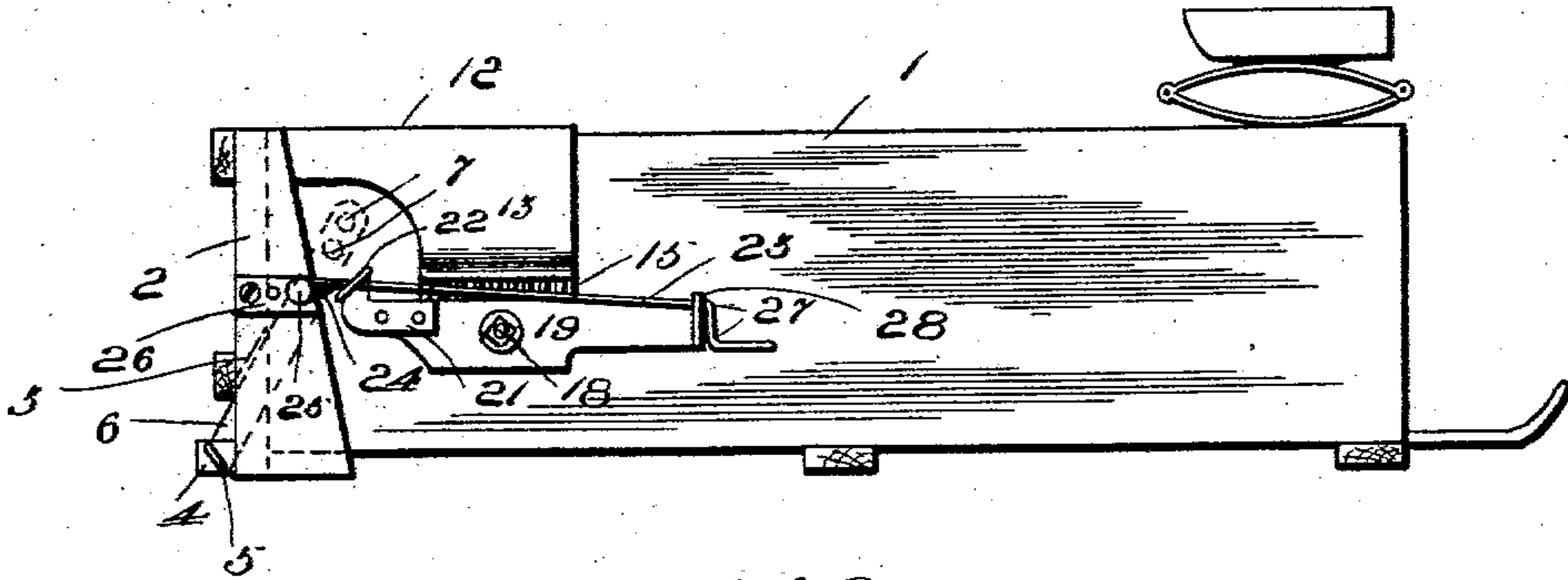


Fig. 2.

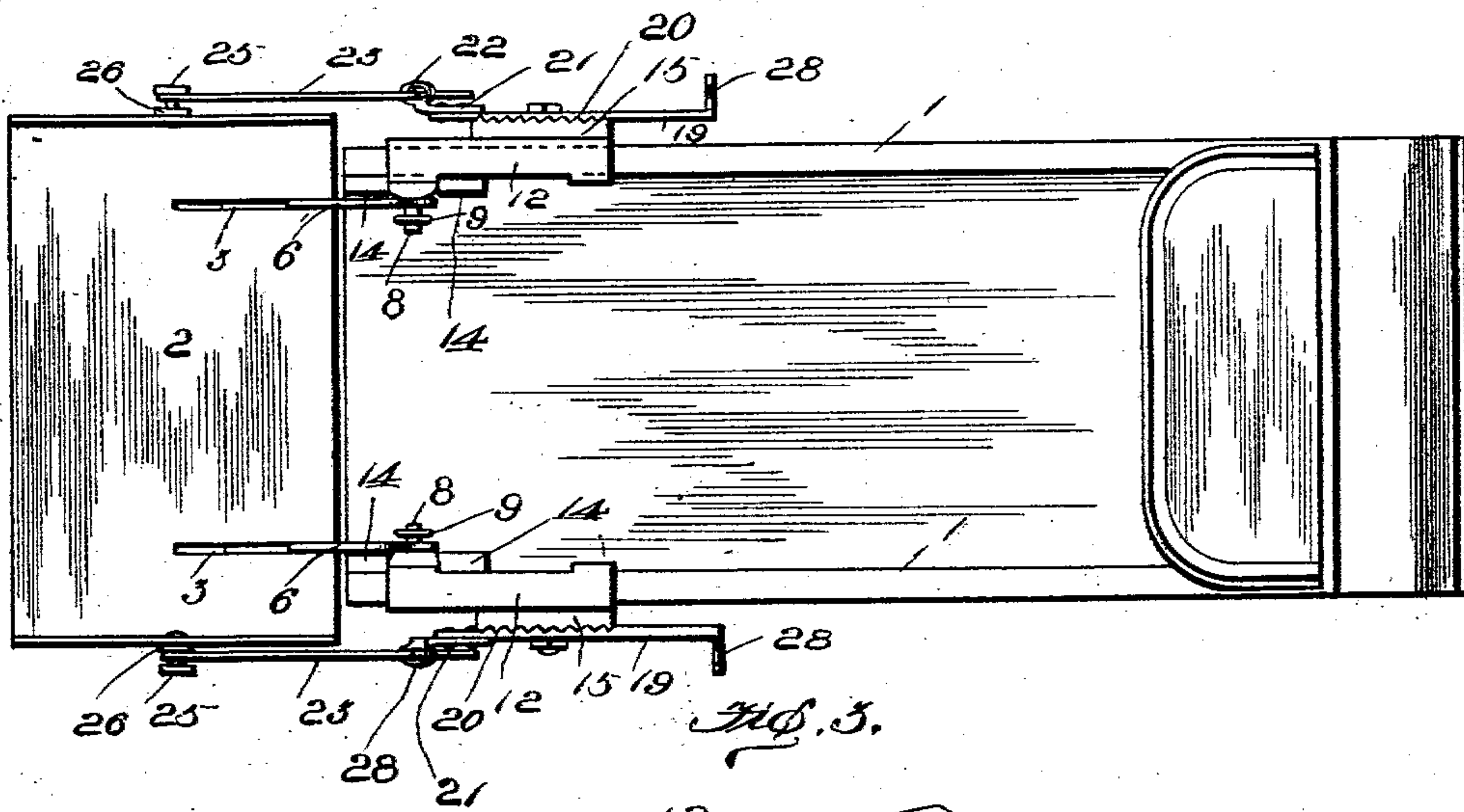
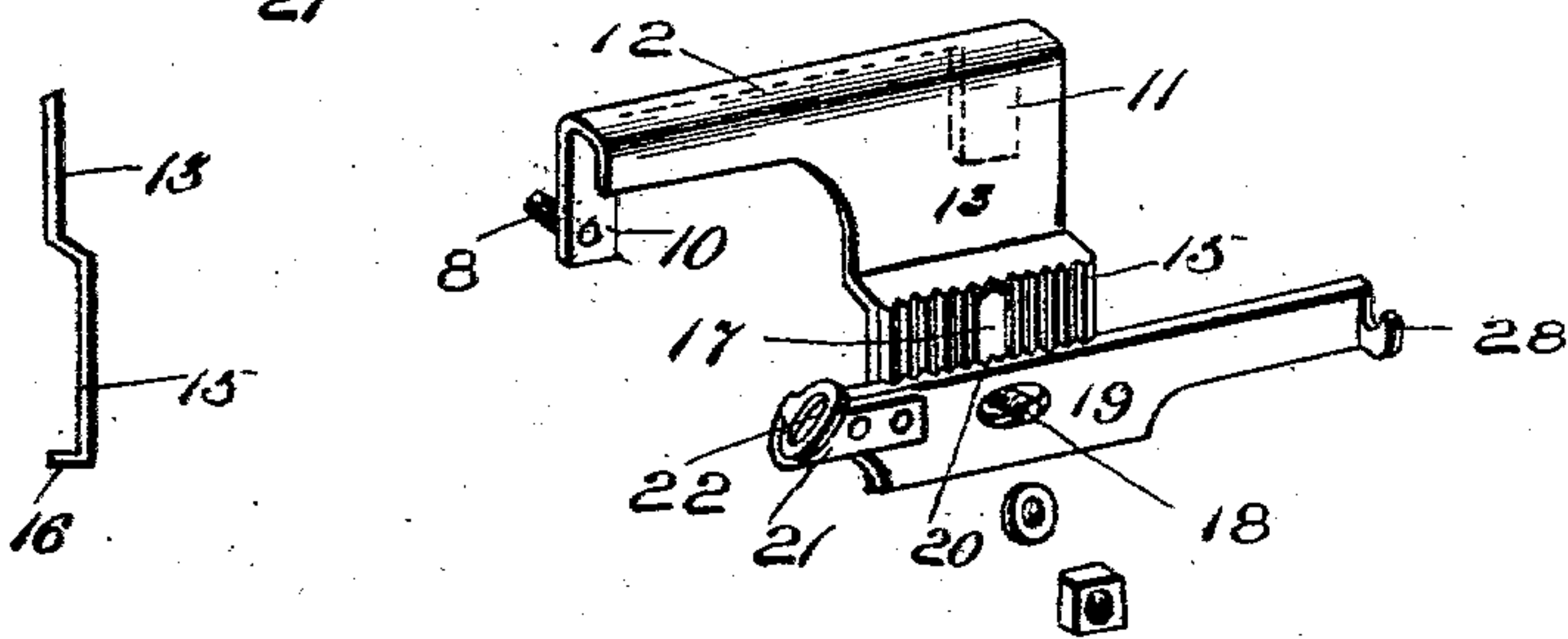


Fig. 3.



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UNITED STATES PATENT OFFICE.

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END-GATE HANGER FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 715,174, dated December 2, 1902.

Application filed October 9, 1902. Serial No. 126,595. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. STURGIS, a citizen of the United States, residing at Shelbyville, in the county of Shelby and State of Illinois, have invented certain new and useful Improvements in End-Gate Hangers for Wagons, of which the following is a specification.

This invention relates to improvements in end-gate hangers for wagons; and the main object of my invention is the provision of a simple and durable construction of fastening for adjustably holding the gate in place.

Another object of my invention is the provision of a fastening for end-gates or scoop-boards which dispenses with the use of bolts, and is therefore very readily attached or detached and which may be adjusted to hold the gate at any desired angle or position.

To attain the desired objects, the invention consists of an end-gate hanger for wagons embodying novel features of construction in its fastening, which will appear in the detailed description which will follow hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of a wagon-body having its end-gate or scoop-board equipped with my invention. Fig. 2 is a top plan view thereof, and Fig. 3 is an enlarged detail view of one of the fastenings removed to more clearly show the entire construction.

Referring to the drawings, in which similar numerals denote similar parts throughout the several views, the numeral 1 designates the wagon-body, and 2 the end-gate or scoop, both of which may be of the ordinary construction, except that inclined grooves or channels 3 are provided in the end-gate.

Secured upon the outside of the gate and straddling the lower ends of the grooves are the straps or pivot-sockets 4, in which are held by means of the cotter-pins 5 the lower ends of the arms or adjustable supports 6. The two sets of openings 7 are provided in the upper portions of these supports, so that the pins or projections 8 may be inserted in either of the openings, and thus hold the end-gate so that it may be held in two positions with relation to the wagon-body, a cotter-pin 9 being employed to hold the pin in place.

As there are two duplicate fastenings employed to hold the gate in place, I will proceed to describe one. The pin 8 is carried by the inner downwardly-projecting arm 10, there being another similar arm 11 formed integral with the body 12 of the fastening-plate. The body of the plate is adapted to rest upon the top edge of the side of the wagon-body, while the two arms contact the inner side thereof, the right-angled flap 13 being in position and contacting the outer portion of the wagon-body's side. In this position the arms prevent the fastening from slipping, especially so as the arm nearer the gate is placed between the two strips 14, secured to the side. The lower end of the flap 13 is provided with the outwardly-curved milled or corrugated portion 15 and terminates in the lower flange 16, a vertical opening 17 being cut in the body of portion 15. Passing through said opening is a bolt 18, which adjustably holds the horizontal plate 19 closely in contact with the portion 15, so that its corrugated portion 20 engages the corrugations of the flap 13. Secured upon the outer end of the plate 19 is the fitting 21, carrying the guiding-eye 22 for the rod 23. The rod 23 is provided with an eye 24 upon its outer end to surround the headed pin 25, carried by the plate 26, which is secured to the side of the gate. The inner end of the rod is provided with the S-shaped bend 27, which acts as a catch to help support the gate when open and which engages the hook 28 of the plate 19 when the gate is closed, the rod being sprung into this position in order to more securely hold the rod in place.

From the foregoing description it is evident that I provide an end-gate which is easily and quickly attached to a wagon-body and which is provided with a fastening which dispenses with bolts, is adjustable, and is very simple, durable, and inexpensive in construction, thus producing a thoroughly efficient and practical device for this purpose.

What I claim as new, and desire to secure by Letters Patent, is—

1. In combination with an end-gate having a pair of parallel inclined or beveled grooves, of a device for fastening and supporting the

gate to a wagon-body, said device consisting of a pair of plates to engage the sides of a wagon-body, a pair of arms entering the grooves of the gate and secured thereto and
5 also the plates, and a pair of rods pivotally secured to the sides of the gate and adapted to be guided and engaged by the plates.

2. In combination with an end-gate having inclined grooves, of a device for adjustably
10 connecting the same to a wagon-body, said device comprising a pair of plates having right-angled arms and sides to contact the sides of a wagon-body, arms pivotally secured to one of the arms of each plate and the gate,
15 a pair of adjustable plates secured to the sides of the plates, and pivoted rods connected to the gate guided and held by the adjustable plates and means to adjustably support the gate connected to the inner faces

of said plates, passing through the grooves of 20 the gate and connected exteriorly to the gate.

3. In combination with an end-gate having inclined grooves, of a hanger for the gate, comprising a pair of plates to clamp upon the
25 sides of the wagon-body, arms connected pivotally to the inner sides of the plates and passing through the grooves and pivotally connected to the gate, and pivotally-mounted rods connected to the sides of the gate and
30 guided and held by the outer portion of the plates.

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

FRANCIS M. STURGIS.

Witnesses:

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