

(No Model.)

A. MACALPINE.
DRAFT ATTACHMENT FOR VEHICLES.

No. 587,078.

Patented July 27, 1897.

Fig: 1.

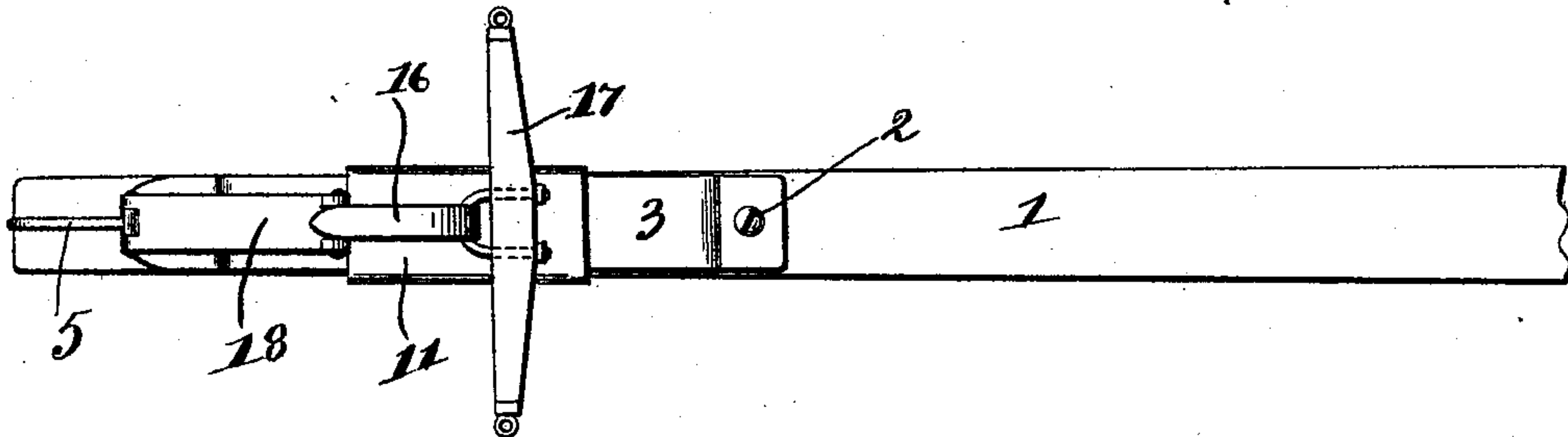


Fig: 2.

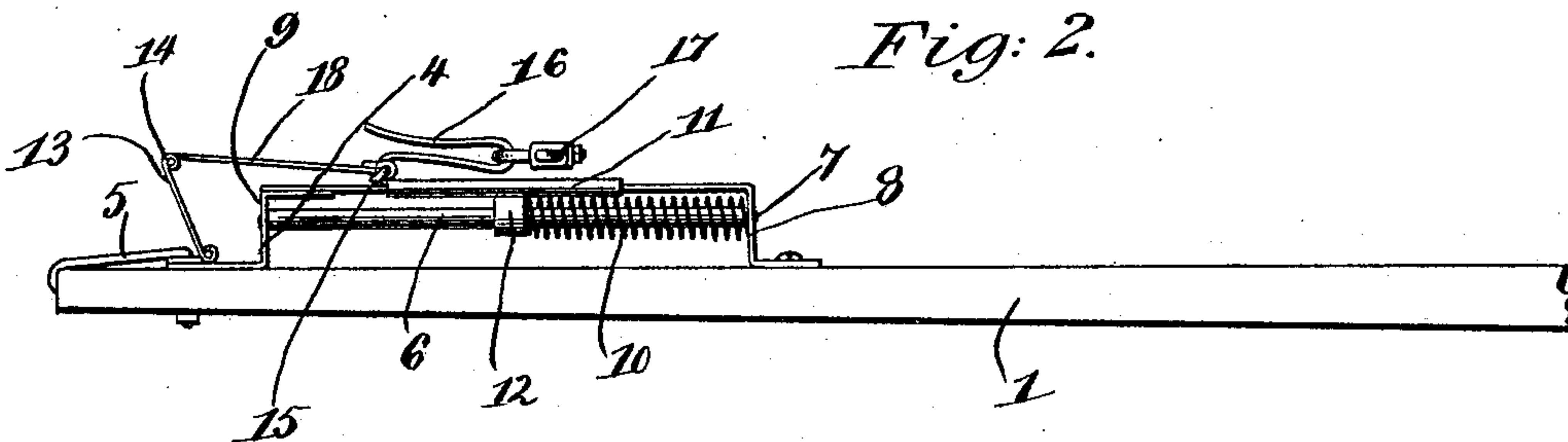
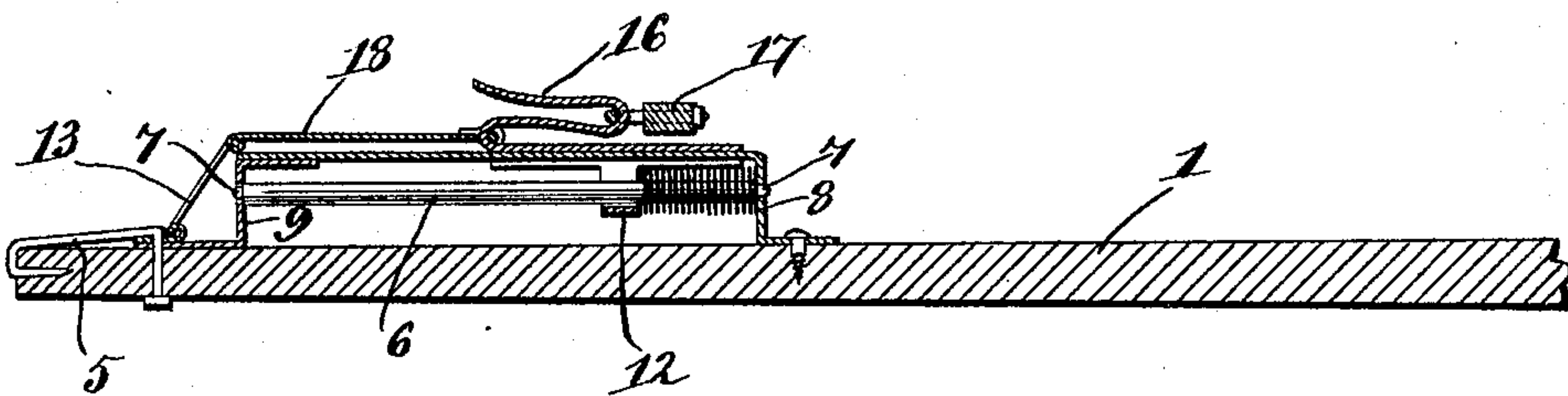


Fig: 3.



WITNESSES

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DRAFT ATTACHMENT FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 587,078, dated July 27, 1897.

Application filed August 5, 1896. Serial No. 601,707. (No model.)

To all whom it may concern:

Be it known that I, ARCHIE MACALPINE, a subject of the Queen of Great Britain, and a resident of Williscroft, county of Bruce, Ontario, Canada, have invented certain new and useful Improvements in Draft Attachments for Vehicles, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar figures of reference indicate corresponding parts.

My invention has relation to vehicle attachments; and my object is to provide a device for taking up the "slack" in evenness which will be cheap to manufacture, easily operated, and durable in use.

The invention will be hereinafter fully described, and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of my invention. Fig. 2 is a side elevation thereof, and Fig. 3 a longitudinal sectional view showing the device in use.

Referring to the drawings by numeral, 1 indicates the wagon shaft or tongue, having attached to it by any suitable means, preferably by screws 2, the bent metallic strip 3. It will be noted that one end of my strip is reinforced by an additional piece 4, secured by a bent bolt 5 to the tongue. It is obvious, if desired, that I may construct the entire strip of one piece of material.

6 indicates a rod having its ends reduced, as at 7, and secured in the ends 8 and 9 of the metallic strip. A spiral spring 10 is wound around the rod 6.

Slidingly secured to the metallic strip 3 is a sliding plate 11, whose lower portion is provided with an eye 12, through which the rod 6 passes, the spring 10 abutting against one side of the eye.

18 and 13 are the two members of a toggle-lever pivoted together at 14. The member 18 has its end hinged to the sliding plate 11 at the point 15, while the free end of the member 13 of the toggle-lever is pivotally secured to the bolt 5.

A hook 16 may be either attached to the sliding plate or the member 18 of the toggle-lever.

In the hook 16 the whiffletree 17 may be attached.

When in use, any slack in the evenness caused by coming downgrade or the like is taken up by the action of the spring, and the vehicle is prevented from rushing forward and causing the whiffletree to strike the horse's heel, and in this manner keeps from exciting the animal, thereby adding to the safety of the occupant of the vehicle.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A draft attachment for vehicles comprising a bent strip secured to the pole of the vehicle, a rod secured in the bent strip, having a spiral spring wound thereon, a plate adapted to slide on the bent strip, and having an eye passing around the rod 6, in front of the spiral spring, a toggle-joint secured to the sliding plate, and means for securing the whiffletree to the sliding plate comprising a hook, as set forth.

2. A draft attachment for vehicles comprising a bent strip secured to the pole of the vehicle, a rod secured in the bent strip having a spiral spring wound thereon, a plate adapted to slide on the top of the bent strip, said plate having an eye passing around the rod 6, behind the spiral spring, a toggle, having one portion secured to the pole and the other to the sliding plate and means comprising a hook for securing the whiffletree to the sliding plate, as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 30th day of July, 1896.

ARCHIE MACALPINE.

Witnesses:

JOHN A. MACALPINE,
E. T. MACALPINE.