No. 795,599.

PATENTED JULY 25, 1905.

E. H. FOSTER.

BICYCLE SUPPORT.

APPLICATION FILED MAR. 10, 1904.

2 SHEETS—SHEET 1.

FIG. 2.

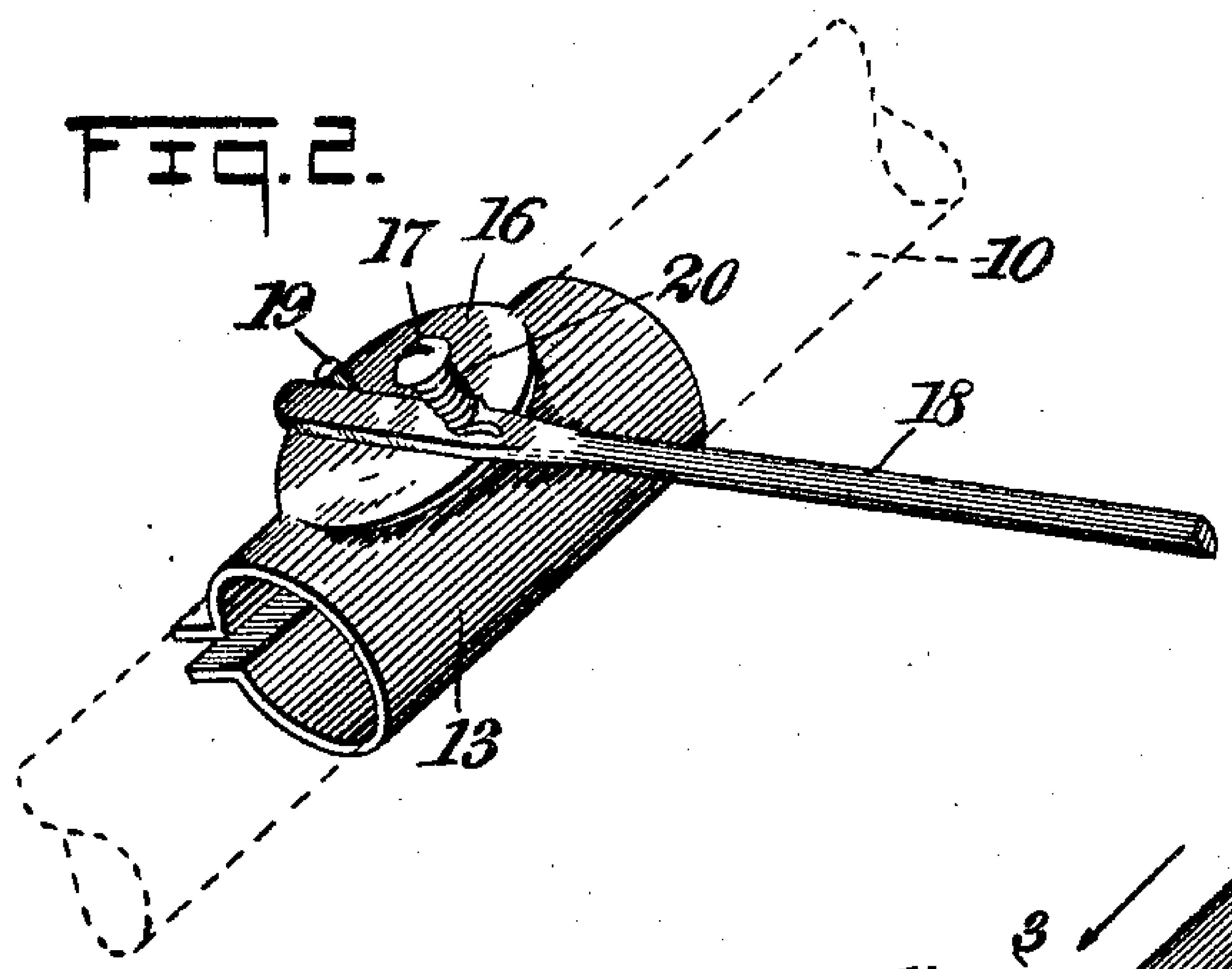


FIG. 1.

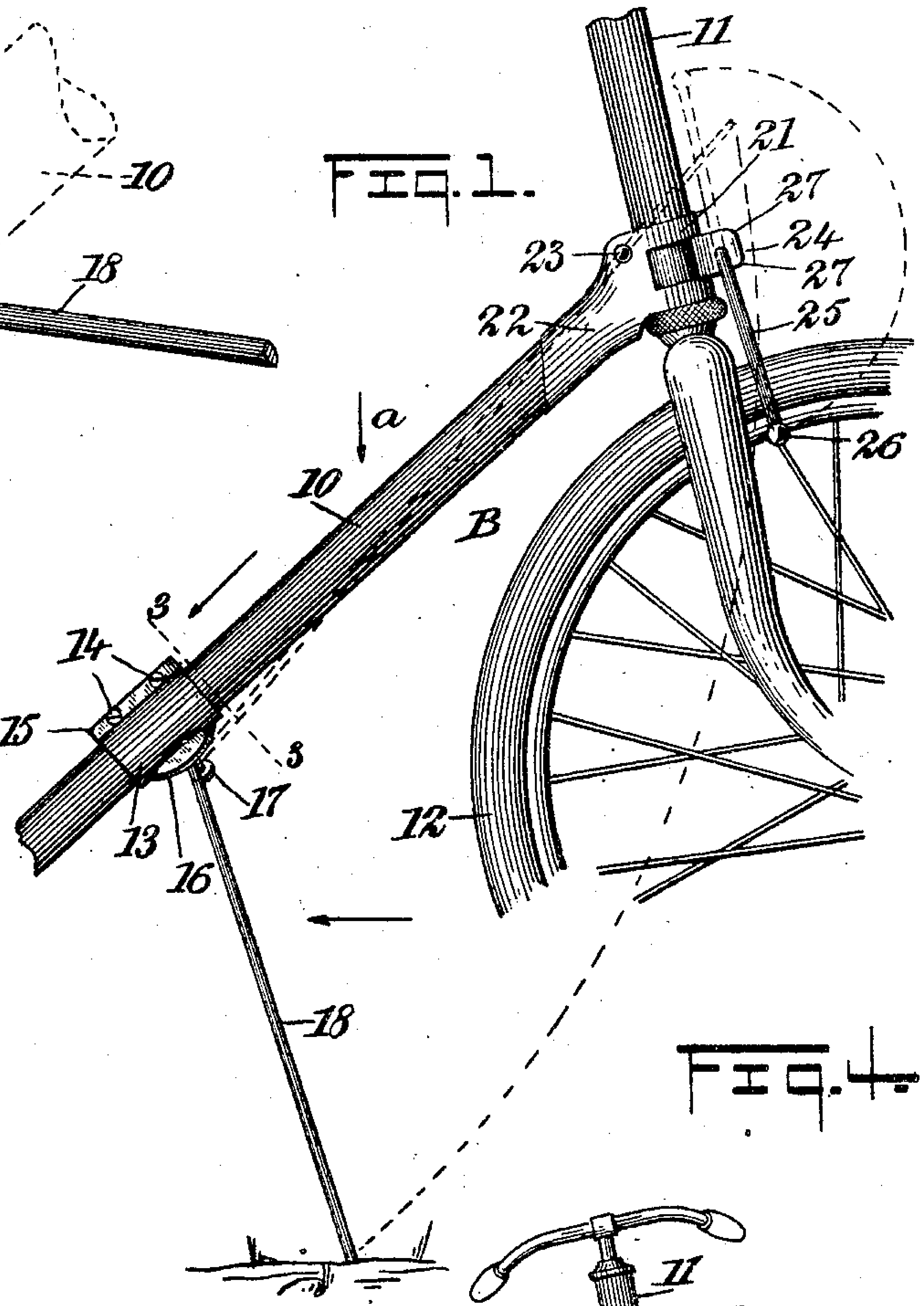


FIG. 3.

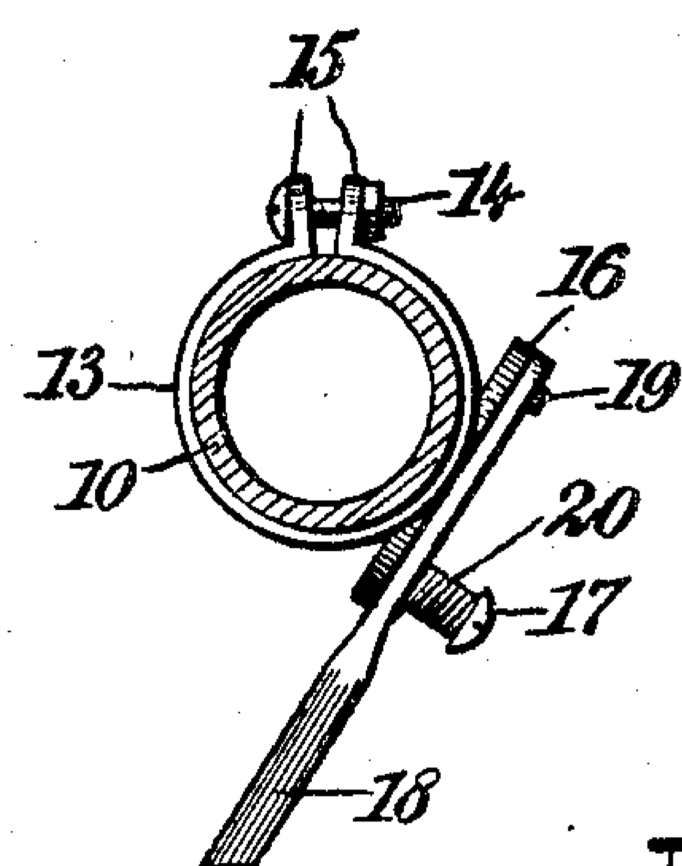


FIG. 4.

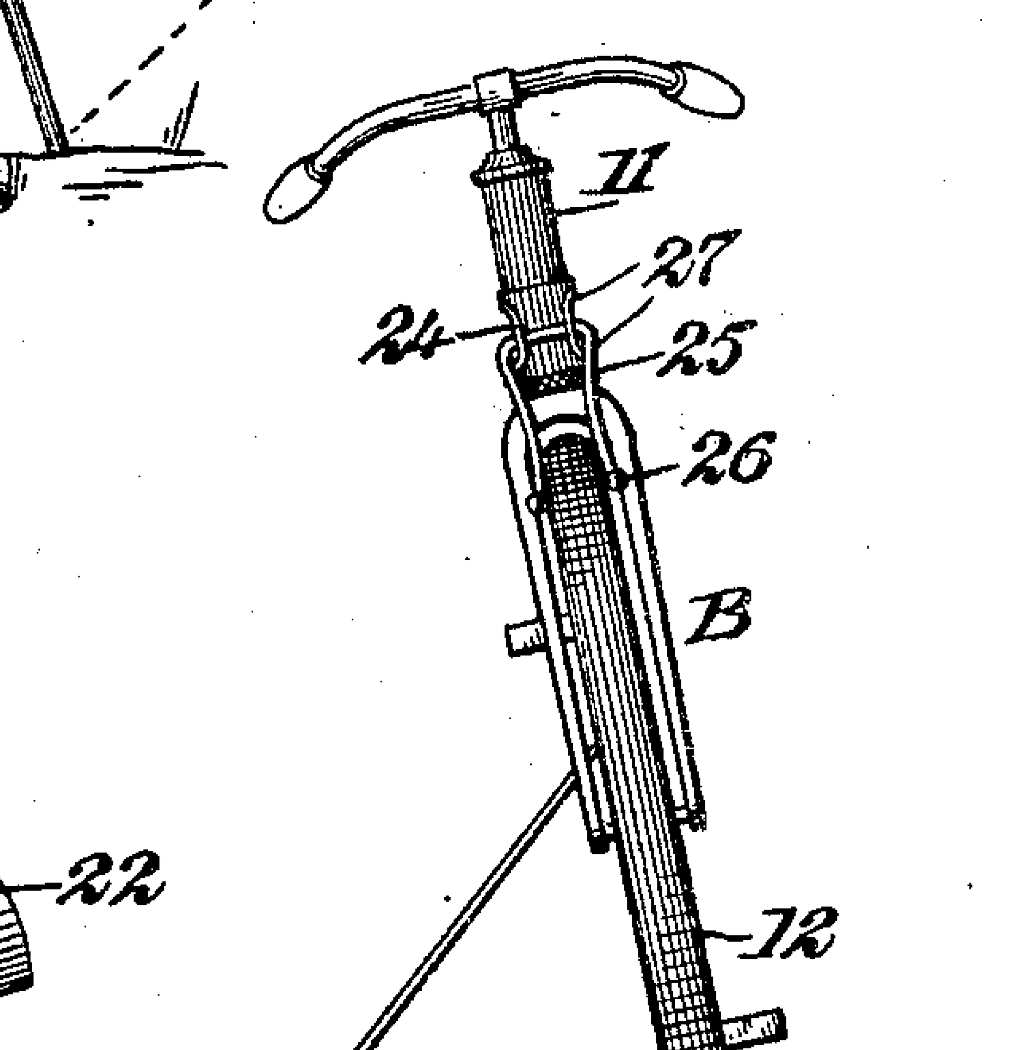
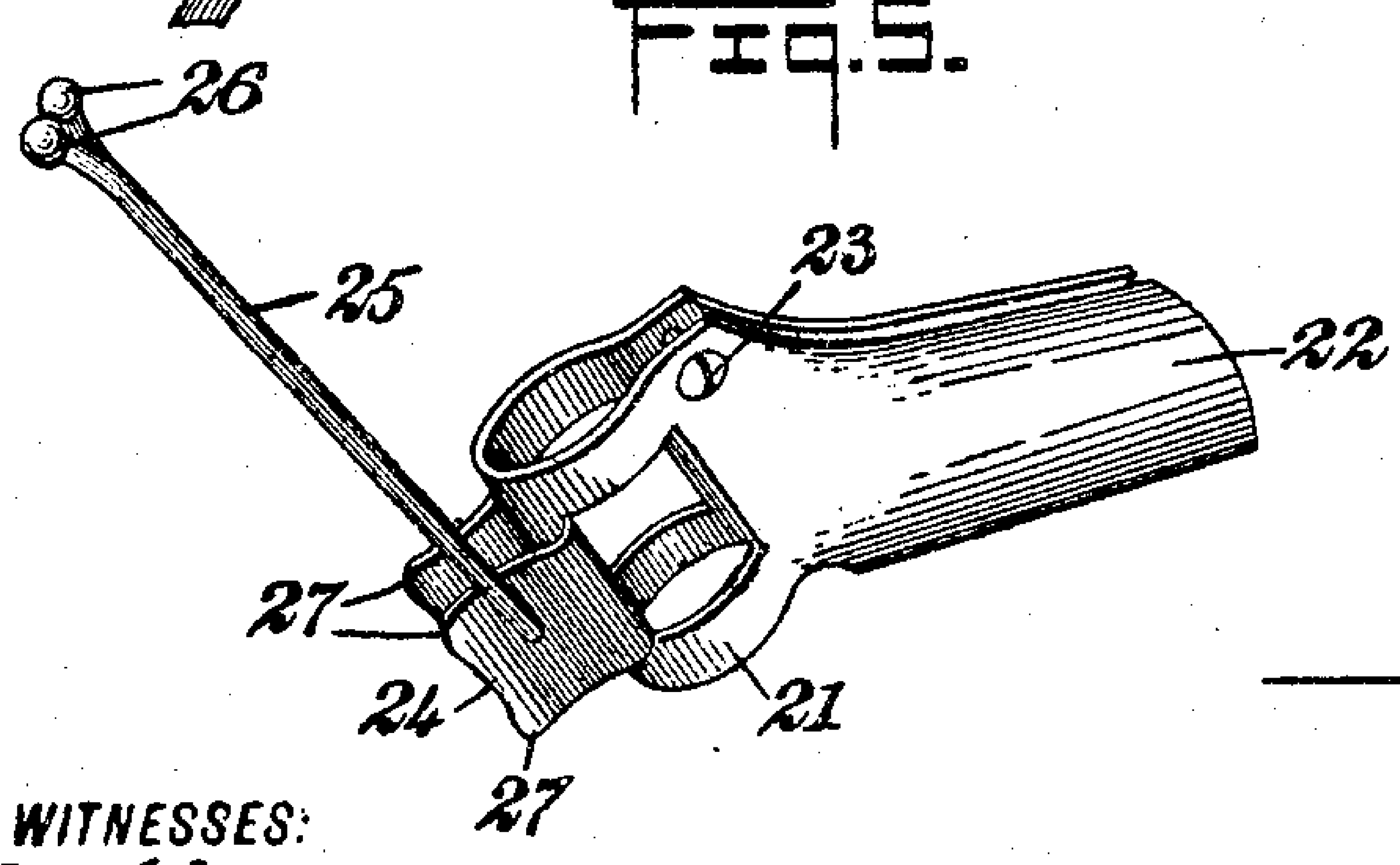


FIG. 5.



WITNESSES:

INVENTOR

Edson H. Foster

BY

ATTORNEYS

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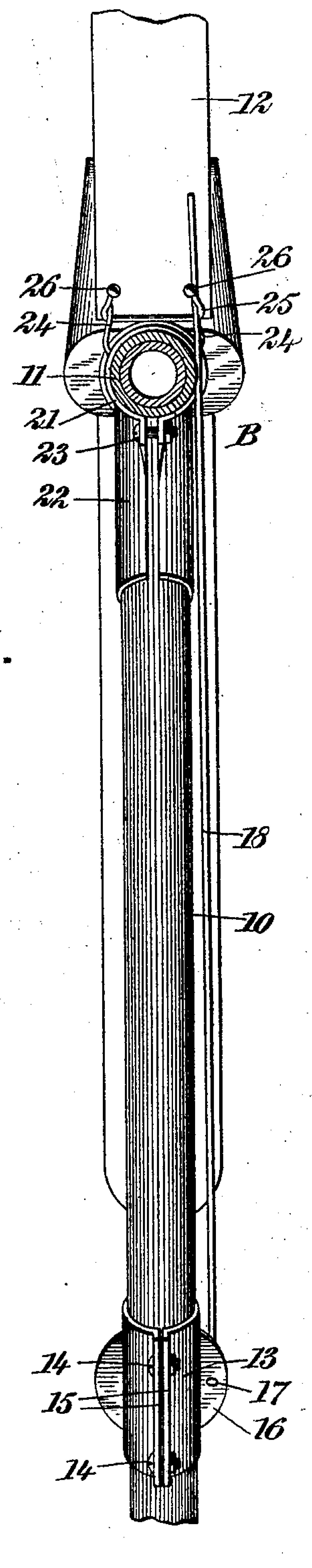
2 SHEETS—SHEET 2.

FIG. 6.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDSON H. FOSTER, OF BAKER CITY, OREGON.

BICYCLE-SUPPORT.

No. 795,599. Specification of Letters Patent. Patented July 25, 1905.

Application filed March 10, 1904. Serial No. 197,573.

To all whom it may concern:

Be it known that I, EDSON H. FOSTER, a citizen of the United States, and a resident of Baker City, in the county of Baker and State of Oregon, have Invented a new and Improved Bicycle-Support, of which the following is a full, clear, and exact description.

My invention relates to supports for bicycles, and has for its principal objects the provision of such a device which is simple, easy to operate, and generally effective.

It consists in the various features and combinations hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 shows a side elevation of a portion of a bicycle to which one embodiment of my invention is applied. Fig. 2 is a perspective view of the under portion of the supporting member. Fig. 3 is a transverse section on the line 3 3 of Fig. 1. Fig. 4 shows the supported bicycle in front elevation. Fig. 5 is a perspective view of the member attached to the bicycle-head; and Fig. 6 is an enlarged top plan view looking in the direction of the arrow *a* in Fig. 1, parts being in section.

B designates a bicycle, of which is here shown the inclined front member 10 of the frame, the head 11, and the front wheel 12. Embracing the inclined member is shown a clamp 13 of my improved support, which is preferably stamped or formed from a single piece of sheet metal, it being secured in place by bolts 14, which pass through opposite perforated lugs 15. Preferably stamped up from the walls of the clamp is a flat plate 16, here shown as generally circular, and so located that it will come upon the under side of the frame member. This plate carries a headed pin 17, conveniently furnished by a screw, to which is pivoted a supporting rod or arm 18, serving to contact with the ground at such an angle that a stable support will be assured for the bicycle when it is leaning slightly to one side of the vertical. Upon the opposite side of the pivot-pin the rod moves over the surface of the plate, it being by its contact therewith prevented from having lateral play, and coacts at its upper end with a stop projection 19, which is conveniently turned up from the metal of the plate. The rod is normally held in its outward or supporting position by a spring 20 encircling the pin and connected at its ends with said pin and with the rod, it being under tension to effect the desired movement.

At the lower part of the head is a clamp having a body portion 21, preferably stamped from sheet metal and having opposite rearward extensions 22, which lie upon each side of and conform to the inclined frame member. The parts of the clamp are drawn toward one another into engagement with the frame by a bolt 23, passing through openings in the clamp near the juncture of the body portion with the extensions. Carried by the clamp are a pair of perforated lugs 24 24, extending forward in the opposite direction from the clamp extensions and here shown as cut from the metal of the clamp. In the lugs is pivoted an engaging member 25, of general **U** shape, preferably having its outer ends rounded at 26 to prevent their defacing or tearing objects with which they contact. The arms of this engaging member are of such length that when they are in their raised position they will extend over the supporting member as it is swung upwardly and when they are lowered will extend upon each side of the rim of the wheel and lock it against lateral movement. The lugs 24 at their outer corners are bent at 27 in the opposite direction from the companion member to furnish retaining projections which positively hold the engaging member in either of its extreme positions, it being able to pass them only by virtue of the spring in the parts.

When the bicycle is in use, the supporting-rod will be raised or swung upward to the position shown in dotted lines in Fig. 1 and in full lines in Fig. 6 and there will be engaged by the member 25, their coaction being preserved by the spring 20, their own resiliency, and the locking of the member 25 by the lug projections, so that there can be no possibility of accidental disengagement. When the rider desires that the wheel shall be supported by the device, he has merely to swing down the member 25 into the position shown in full lines in Figs. 1 and 4, whereupon the spring 20 will carry the arm downward into contact with the ground and furnish a supporting-brace, the front wheel being at the same time locked by the engaging member to prevent its lateral movement. The rotation of the wheel and accidental travel will be guarded against by the engagement of the member 25 with the tire and rim of the wheel, the width between its arms being such that it will press upon these parts with some force.

When the rider again wishes to use the bicycle, it is only necessary to swing the supporting-arm to its raised position and turn the engaging member up into coaction with it.

It will be seen that my improved bicycle-support may be constructed at a very small cost without sacrificing its strength and that it is so light as to add but little to the weight of the wheel. The parts, such as the plate and pivot-pin, which might in some positions contact with the rider's clothes and tear them are located at a point where this is impossible.

The device is easily operated, holds the wheel against all possibility of movement when in use as a support, and when the wheel is being ridden is so securely fastened in place that none of the parts can become disengaged and cause accidents.

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

1. The combination with a bicycle, of a clamp secured to the forward inclined frame member thereof, an arm pivoted to the clamp beneath the frame, a clamp secured to the head, and a resilient engaging member pivoted to the clamp in front of the head and movable to coact with either the arm or the front bicycle-wheel.

2. The combination with a bicycle, of a clamp secured to the forward inclined frame member thereof, an arm pivoted to the clamp beneath the frame member, a clamp secured to the head and provided with forwardly-extending perforated lugs, and a resilient U-shaped member extending through the lugs and movable to coact with either the arm or the front bicycle-wheel.

3. The combination with a bicycle, of a clamp secured to the forward inclined frame member thereof, an arm pivoted to the clamp beneath the frame, a clamp secured to the head, an engaging member pivoted to the clamp in front of the head and movable to coact with either the arm or the front bicycle-wheel, and a spring coacting with the arm and clamp and tending to force the arm from the head.

4. The combination with a bicycle, of a clamp secured to the forward inclined frame member thereof, an arm pivoted to the clamp beneath the frame, a clamp secured to the head, an engaging member pivoted to the clamp in front of the head and movable to coact with either the arm or the front bicycle-wheel, a spring coacting with the arm and clamp and tending to force the arm from the head, and a stop carried by the clamp for arresting the movement of the arm.

5. The combination with a clamp comprising a body portion, an extension therefrom adapted to conform to a portion of a bicycle-frame and lugs projecting from the body portion in the opposite direction from the extension, of a U-shaped member pivoted in the lugs.

6. The combination with a sheet-metal clamp comprising a body portion, an extension therefrom adapted to conform to a portion of a bicycle-frame and lugs comprising the material of the body portion and extending in the opposite direction from the extension, of a U-shaped member pivoted in the lugs.

7. The combination with a clamp, of opposite lugs extending therefrom each having at its outer end a projection extending from the companion lug, and a member pivoted in the lugs and coacting with the projections.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDSON H. FOSTER.

Witnesses:
STEPHEN CHAPLIN,
A. V. COMPTON.