

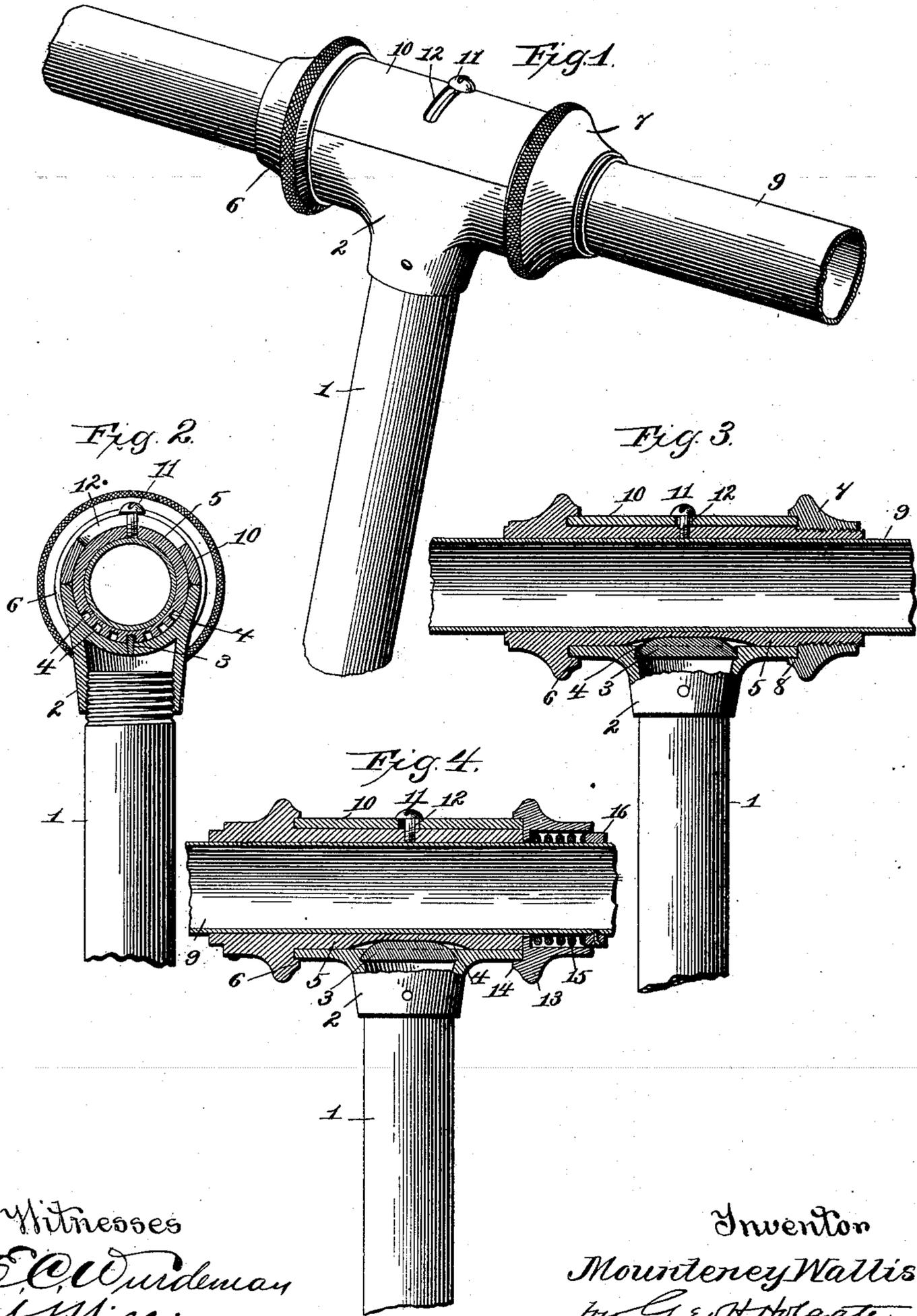
(No Model.)

2 Sheets—Sheet 1.

M. WALLIS.
BICYCLE HANDLE.

No. 604,444.

Patented May 24, 1898.



Witnesses
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Inventor
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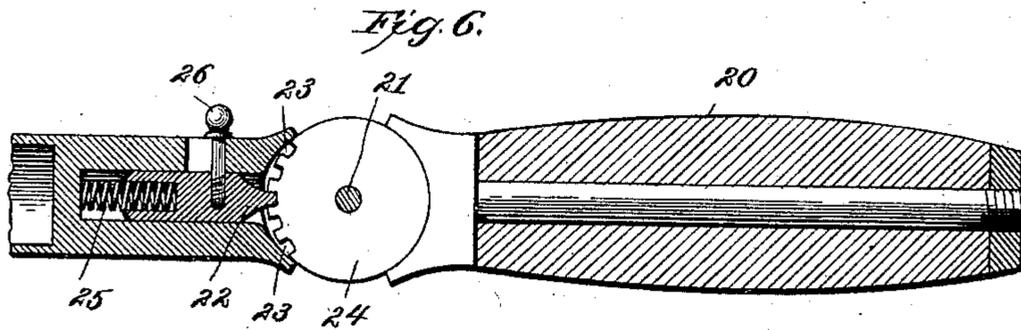
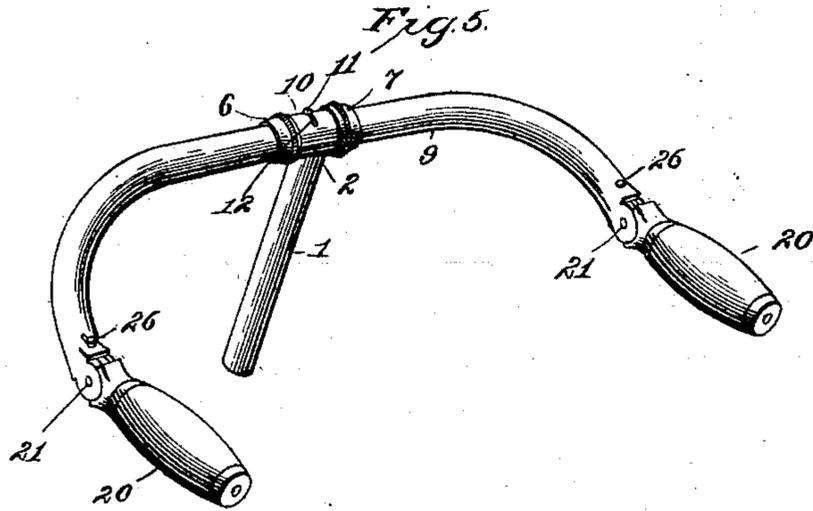
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2 Sheets—Sheet 2.

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BICYCLE HANDLE.

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UNITED STATES PATENT OFFICE.

MOUNTENEY WALLIS, OF PHILADELPHIA, PENNSYLVANIA.

BICYCLE-HANDLE.

SPECIFICATION forming part of Letters Patent No. 604,444, dated May 24, 1898.

Application filed June 24, 1896. Serial No. 596,706. (No model.)

To all whom it may concern:

Be it known that I, MOUNTENEY WALLIS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Bicycle-Handles, of which the following is a specification.

My invention relates to a new and useful improvement in removable and adjustable bars for bicycles, and has for its object to provide such a device which will permit the handholds of the handle-bar to be adjusted to any desired height and also permit the removal of the handle-bars from the machine when desired.

With these ends in view my invention consists in the details of construction and combination of elements hereinafter set forth, and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction and operation in detail, referring by number to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective of a portion of the socket-tube and handle of a bicycle, showing a portion of my improvement applied thereto; Fig. 2, a central vertical section thereof; Fig. 3, a longitudinal section; Fig. 4, a similar view of a slight modification of the means for locking the handle-bar in place; Fig. 5, a perspective of a pair of handle-bars, clearly illustrating the arrangement of the adjustable grips therefor; and Fig. 6, a section of one of these grips, showing the method of attaching the same to the handle-bar.

Similar numbers denote like parts in the several views of the drawings.

1 represents a socket-tube, the upper end of which is secured to the semicylindrical socket 2, and projecting from the bottom of the socket is a fin-shaped lug 3, adapted to engage the notches 4, formed in the barrel 5, which latter is adapted to fit within the socket. To one end of this barrel is secured an overhanging flange 6, the opposite end being threaded and adapted to receive the knurled nut 7, which is also provided with an overhanging flange 8. By this arrangement to secure the barrel within the socket it is

only necessary to place the former within the latter, so that the lugs 3 will engage one of the notches 4 and move said barrel longitudinally until the overhanging flange 6 embraces one of the ends of the socket and finally run the knurled nut inward upon the threaded end of the barrel until this overhanging flange 8 has also embraced the opposite end of the socket, when, as will be clearly understood, the barrel cannot be revolved on account of the engagement of the lug with one of the notches, nor can it be removed from the socket on account of the overhanging flanges embracing the ends of the socket, and it will also be noted that no strain comes upon the threads of the barrel and nut, as pressure or pull exerted upon the barrel is sustained entirely by the flanges and the lug.

The handle-bars 9 are secured in any well-known manner within the barrel, and when the handholds of said bars are to be adjusted, which requires the rotation of said handle-bars, it is brought about by backing off the knurled nut 7 until the flanges are out of engagement with the ends of the socket, when said barrel may be lifted sufficiently to cause the lug to be disengaged from the notch, when the barrel may be revolved and secured in any desired adjustment, as before described.

To prevent the possibility of a person mounting and riding a machine without authority when said machine is left in an exposed location, the owner thereof may remove the handle-bars by simply backing off the nut, as before described, and withdrawing the barrel from the socket, which would render the machine useless on account of the lack of means to start the same. Should it be desired to conceal the barrel from view, a cap 10 may be provided, which fits under the overhanging flanges and rests against the upper edges of the socket, and this cap may be held in place by a screw 11, passing through a suitable slot 12 and threaded into the barrel. This arrangement will permit the revolving of the barrel within certain limits without revolving the cap, and unless the barrel is removed from the socket the cap would remain therewith.

As is well known by bicycle-riders, the hand often becomes cramped from the necessity of holding it in substantially the same position,

and one of the features of my invention is to obviate this difficulty, which is accomplished by providing the adjustable grips 20 and pivoting them at 21 to the handle-bars, so that they may be swung vertically relative to said bars, and these grips are held in any adjustment by the pawls 22, entering into engagement with one of the notches 23, which are formed in the heads 24. The pawls are normally held into engagement with the notches by the springs 25 and may be retracted by the knobs 26, which project through the slots in the handle-bars. Thus when one position of the hand becomes tiresome it is only necessary to readjust the grips so as to change this position, thereby giving great relief to the rider.

In the modification shown in Fig. 4 the nut 7 is omitted and a collar 13 substituted therefor which has the overhanging flange 14 formed therewith, and a spring 15 is arranged within this collar and coiled around the handle-bar, and a ring 16 is secured upon the collar. This permits the collar to be sprung upward against the resiliency of the spring, so as to disengage the overhanging flanges from the ends of the socket in order that the barrel may be adjusted or removed, as above described.

Having thus fully described my invention, what I claim as new and useful is—

1. In combination, a socket-tube, a socket connected thereto, a barrel provided at one end with an overhanging flange to engage one end of the socket, a lug projecting from

the bottom of the socket to engage notches in the barrel, a collar having an overhanging flange to engage the opposite end of the socket, said socket being shaped to produce an annular space when applied to a handle-bar, the collar having a flange to rest on the handle-bar, a cap semicircular in cross-section fitting under the flanges of the collar and barrel, said cap having a transverse slot, a screw seated in the barrel and protruding through the slot, the edges of said cap meeting and resting on the edges of the socket, a spring encircling the bar within the space and abutting the flange, and a ring 16 fitting partially in the space to confine the spring, as and for the purpose described.

2. An adjustable handle-bar, a semicircular socket, a barrel adapted to fit in said socket, a lug projecting upward to engage slots in the barrel, a semicircular plate adapted to fit over the barrel, the edges of the plate fitting against the edges of the socket, a cap formed with one end of the barrel having an annular flange encircling the socket and plate, a similar cap on the end adapted to slide back and forth and clamp the parts together, and a handle-bar clamped within the barrel, substantially as described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

MOUNTENEY WALLIS.

Witnesses:

S. S. WILLIAMSON,
MARK BUFORD.