(No Model.) 2 Sheets—Sheet 1.

# G. WOOLLEY.

## ADJUSTABLE SUPPORT OR REST FOR BICYCLES.

No. 573,378. Patented Dec. 15, 1896.

Fig. 1.

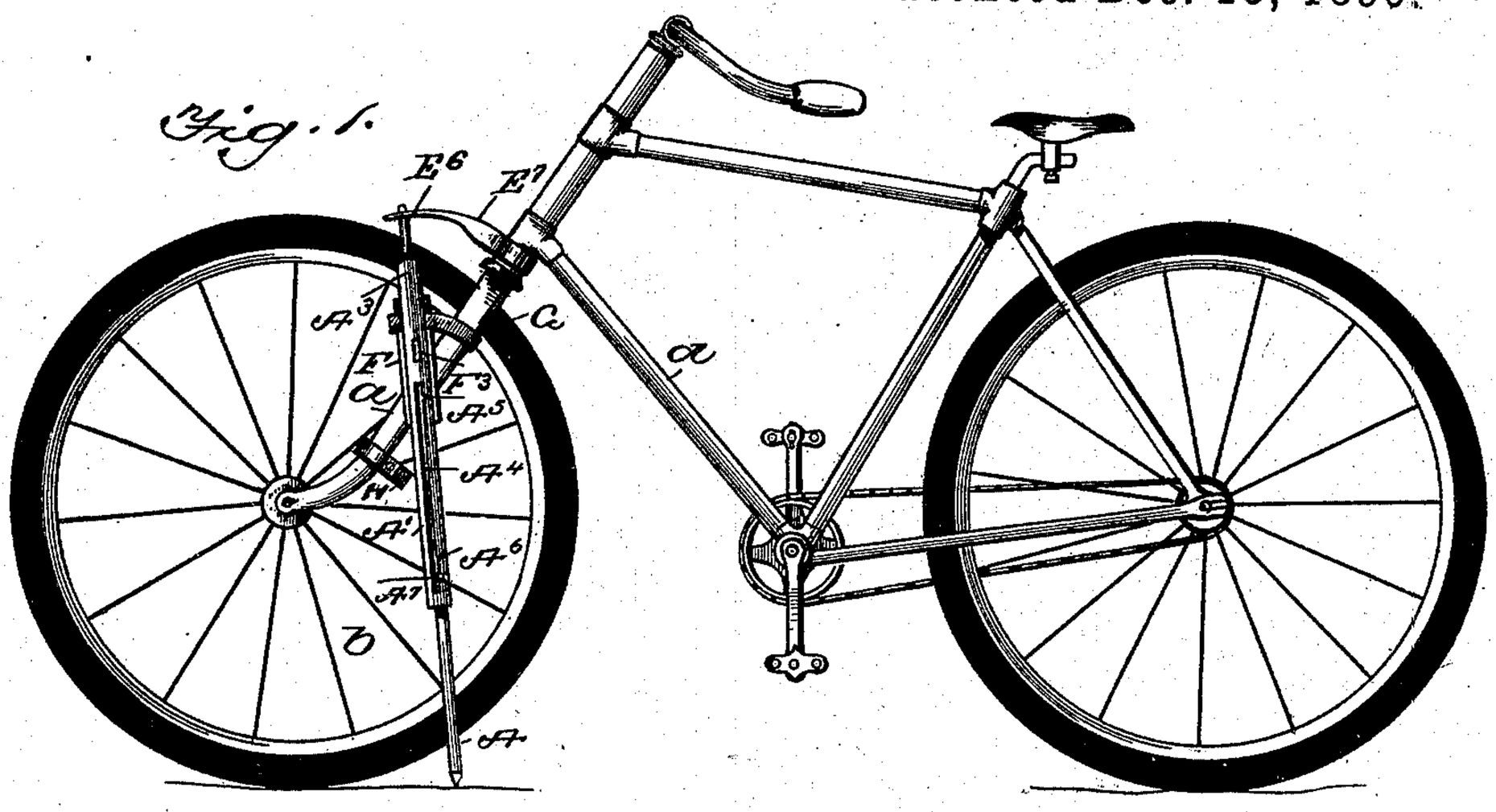



Fig. 2.

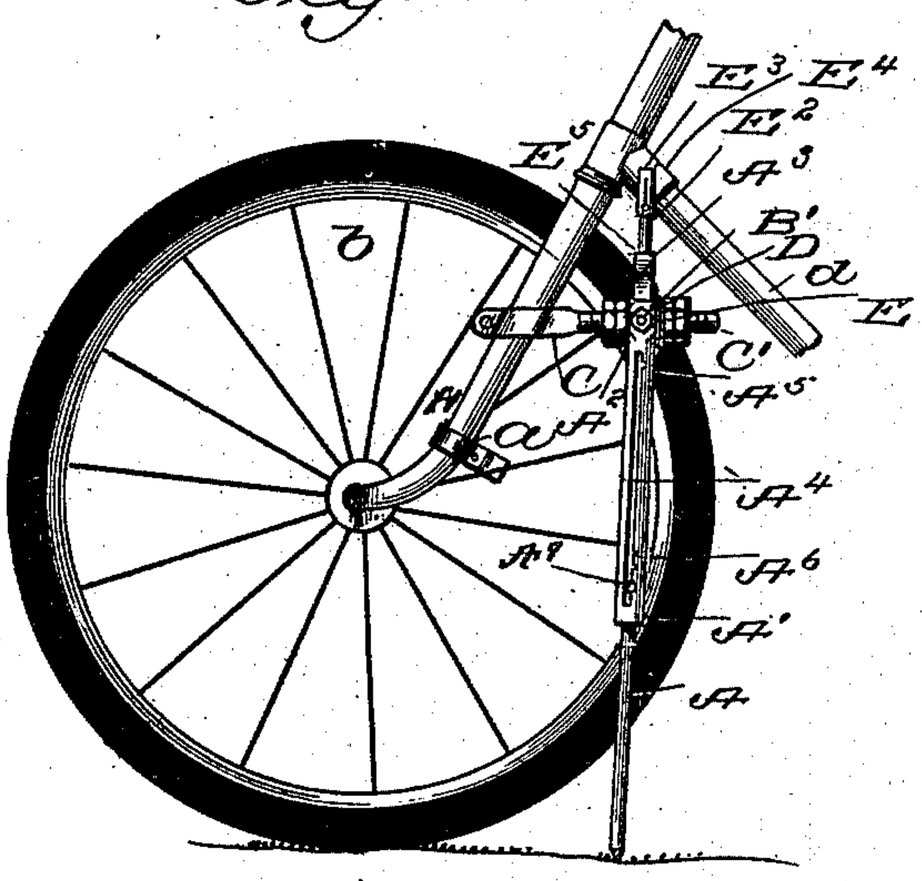
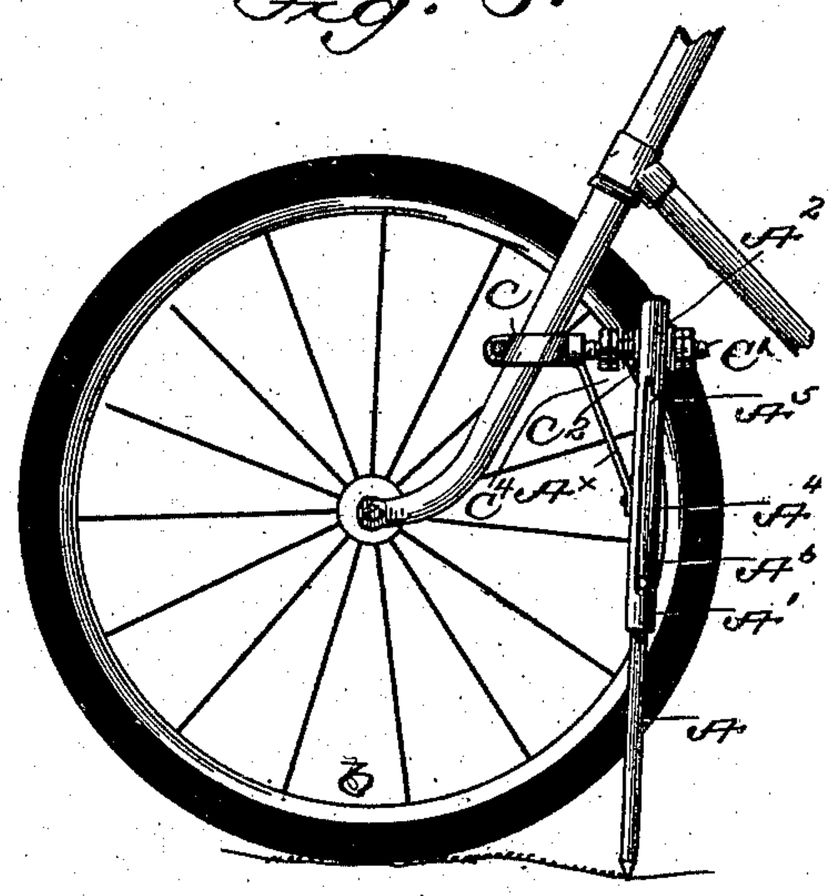



Fig. 3.

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(No Model.) 2 Sheets—Sheet 2.

# G. WOOLLEY.

## ADJUSTABLE SUPPORT OR REST FOR BICYCLES.

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Fig. 4.

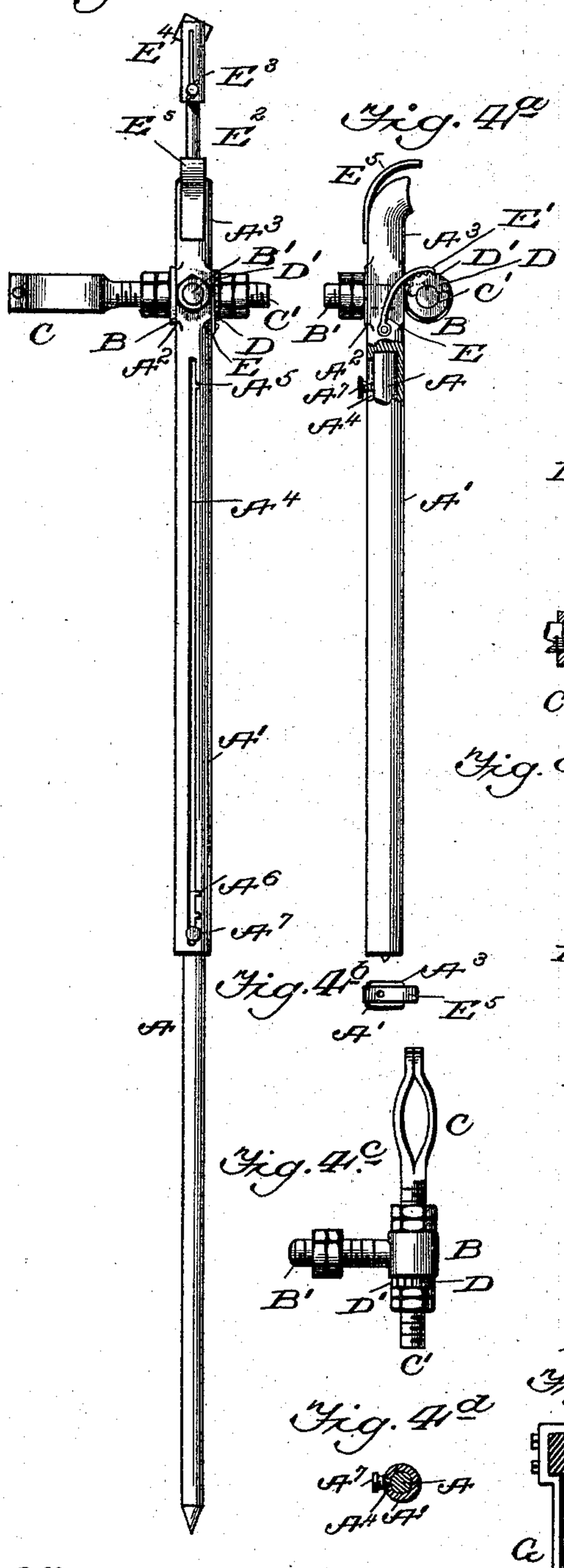



Fig. 4a




Fig. 4b




Fig. 4c




Fig. 4d




Fig. 5.

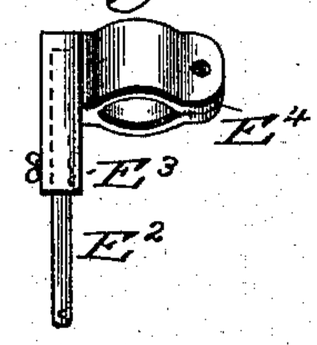



Fig. 5a

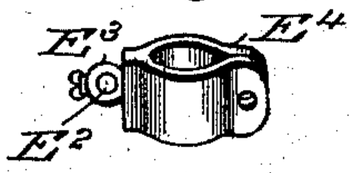



Fig. 6.

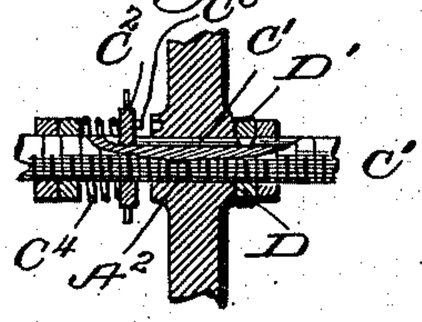



Fig. 8.

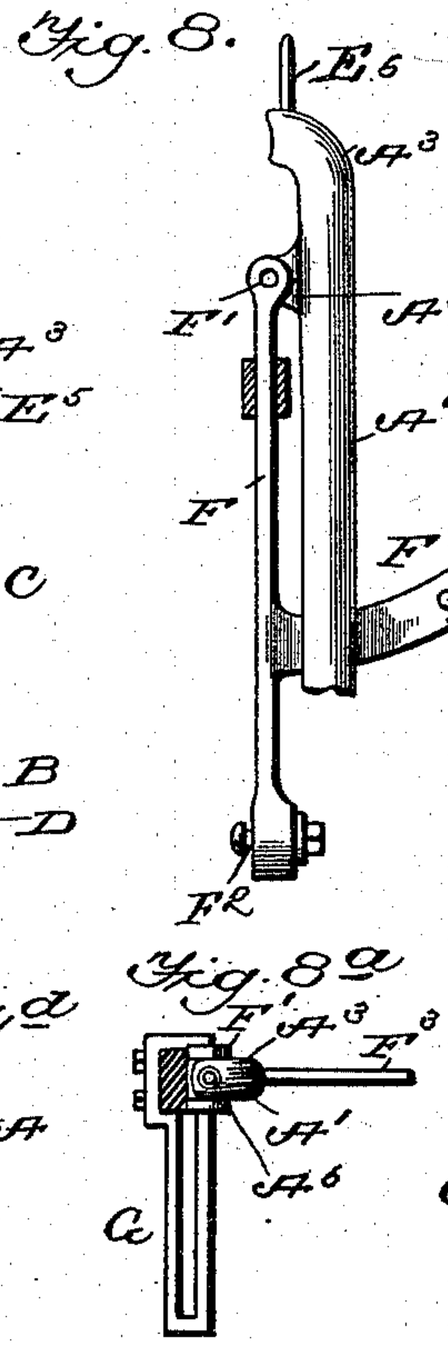



Fig. 8a




Fig. 8b

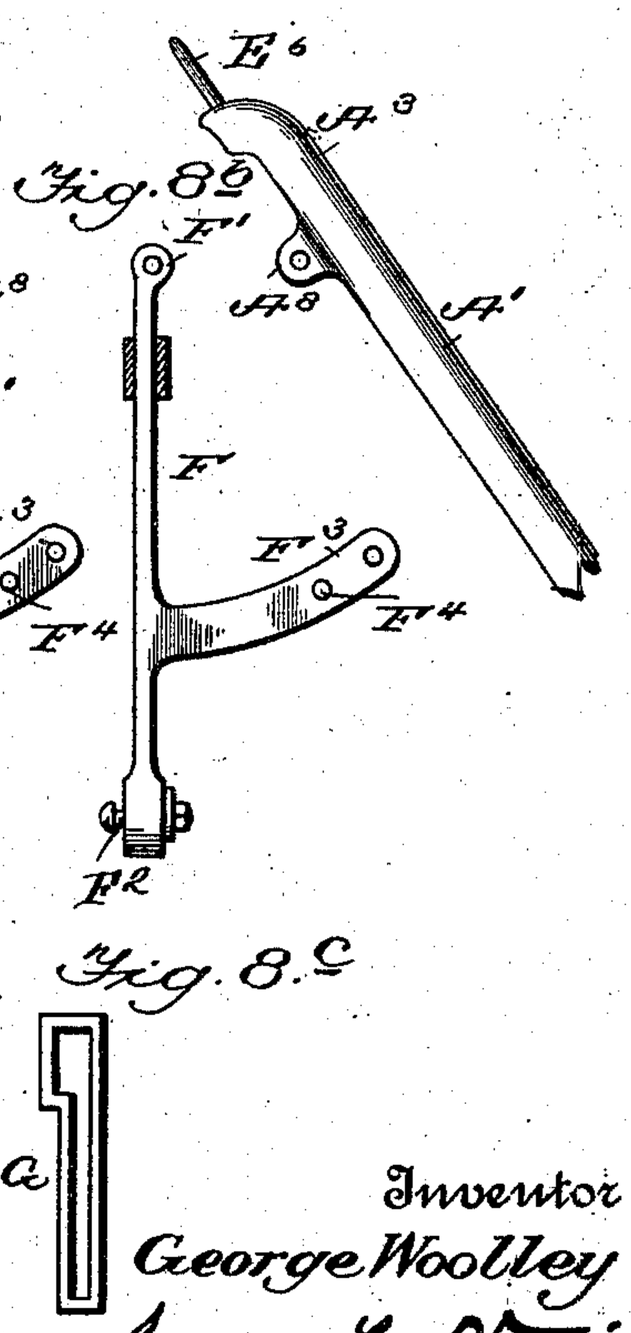



Fig. 8c




Fig. 9.

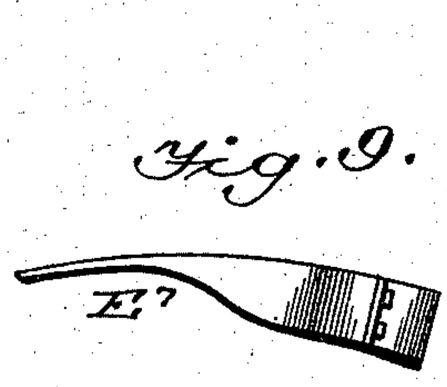



Fig. 9a

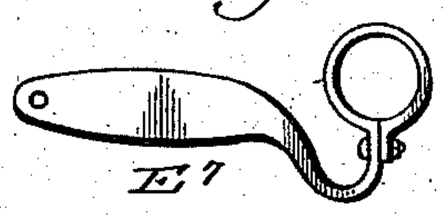
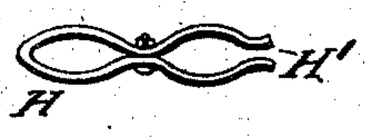



Fig. 7.

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his Attorney

# UNITED STATES PATENT OFFICE.

GEORGE WOOLLEY, OF GOULBURN, NEW SOUTH WALES.

## ADJUSTABLE SUPPORT OR REST FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 573,378, dated December 15, 1896.

Application filed May 11, 1896. Serial No. 591,166. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WOOLLEY, traveler, a subject of the Queen of Great Britain, residing at Citizen Street, Goulburn, in the British Colony of New South Wales, have invented a new and useful Support for Bicycles to be Used as an Improved Adjustable Support or Rest for Bicycles, of which the following is a specification.

This invention relates to an improved adjustable support or rest for bicycles by means of which the difficulty experienced in finding a suitable position for the machine after dismounting therefrom will be entirely obviated, and in some cases the danger of other persons using the machine during its owner's temporary absence will be wholly prevented.

This invention consists principally of an improved adjustable support or rest or standard or leg attached to the front fork of the bicycle and adapted to be carried clear of the ground and of the wheels when the machine is in motion and to be lengthened and rest upon the ground and against the tire of the front wheel to support said machine uprightly when it is at rest.

This invention consists, secondly, in the combination and arrangement, with the improved adjustable support or rest hereinbefore mentioned, of devices for retaining said support or rest in its prearranged position and of locks for said devices; and this invention further consists in the combinations and arrangements of parts hereinafter described and specifically claimed; but in order that this invention may be clearly understood reference will now be made to the drawings herewith, in which—

Figure 1 is a side elevation of a bicycle fitted with my improved adjustable support or rest. Figs. 2 and 3 are similar views to Fig. 1 of the front portion of the same, having attached thereto modified constructions of the said support or rest. Fig. 4 is a side elevation of the support or rest or telescopic standard or leg as shown in Fig. 2. Fig. $4^a$ is a front view of the standard or leg, with its lower part telescopically withdrawn into its upper part. Fig. $4^b$ is a plan of said leg. Fig. $4^c$ is a plan of the attaching-clip of said leg, and Fig. $4^d$ a section of said leg. Fig. 5 is a back elevation of stop or retaining pin as used in the arrangement as shown in Fig. 2, and Fig. $5^a$ is a plan of same. Fig. 6 is a sectional view of part of the attaching-clip when the arrangement as shown in Fig. 3 is used. Fig. 7 is an edge view of the holding-clip for the bottom end of the socket of the telescopic standard. Fig. 8 is a side elevation of the modified construction of adjustable standard or leg attachment shown in Fig. 1, and Fig. $8^a$ is a plan of same. Fig. $8^b$ is a similar view to Fig. 8 with the adjustable standard or leg removed therefrom, and Fig. $8^c$ is a plan of the guard-arm or sector-bar of the same. Figs. 9 and $9^a$ are elevation and plan of the holding-spring for the top of adjustable standard or leg in the arrangement shown in Fig. 1.

The adjustable standard or leg or rest or support consists of lower end A, Fig. 4, fitting telescopically within casing A′, hinge or pivot part $A^2$, and upper end $A^3$, the casing A′ having a slot $A^4$ throughout its length, from which there is a top offset $A^5$ and two or more lower offsets $A^6$, each offset being adapted to take the shank of the thumb-piece $A^7$ when the lower end A of the standard or leg is partially revolved, taking in the upper offset $A^5$ to retain the lower part A within the casing A′ and in one or other of the lower offsets $A^6$ when said lower end A extends outwardly at the one of its various lengths. The hinge or pivot part $A^2$ is bored to take upon tailpiece B′ of knuckle-piece B upon the end C′ of spring-clip C, adapted to take around the fork *a* of the bicycle front wheel *b* and to have motion thereon. Spur-washer D, with teeth or spurs D′, is adapted to slide on said clip end C′, but not to revolve thereon, and it moves as the position of the knuckle-piece B is adjusted thereon to requirements. The spurs or teeth D′ are adapted to receive the hook E′ of spring E, so that said spring, passing over said teeth or spurs as the standard or leg is moved outwardly at the lower end A, will catch on one of them and thus hold said standard or leg in the position given to it. A pin $E^2$ slides in socket $E^3$ of clip $E^4$, which is bolted or riveted around the lower frame-bar *d* of the bicycle, and said pin $E^2$ is adjustably fixed in any predetermined position by means of set-screw in socket $E^3$, or is immovably fixed so that it will just bend or force downwardly

the end of spring $E^5$ (on the top of head $A^3$) of the adjustable support or rest or standard or leg as the lower end of said leg is moved outwardly, and will thus drop into the hole provided in the end of said spring $E^5$ for its reception, and will so retain the standard or leg in its arranged position and will prevent the front wheel from swerving or turning by reason of the leverage exerted from said lower bar *d*. When said pin $E^2$ is immovably fixed in its socket $E^3$, it is allowed to drop so far through said spring $E^5$ as to reveal a hole through which a suitable padlock may be passed, so as to lock the leg in position and so prevent movement of the front wheel and of the bicycle upon its wheels.

The arrangement shown in Fig. 3 differs only from that shown in Fig. 2 by reason of the hinged part $A^2$ of the support or rest or standard or leg (which is reinforced by stay or diagonal $A^\times$) taking upon a screw end $C'$ of the clip C instead of on the tail $B'$ of the knuckle-piece B, which piece is dispensed with, and instead of having the drop stop-pin $E^2$ arrangement with spring $E^5$ it has a sliding spring-collar $C^2$, with a feather in a groove on the end $C'$ of said clip, having a pin $C^3$ on its face to take into one or another of the orifices in the face of the boss of the standard to hold it in or out of use, the said collar being slid along the end $C'$, against spring $C^4$, to release said standard or leg for use or for carriage, in which latter position it hangs straight down. The operations of the two arrangements and their other parts are otherwise identical.

The adjustable support or rest A in the arrangement shown in Fig. 1 is the same, so far as telescoping is concerned, as those previously described, and it has a hinged knuckle $A^8$, which joints with the knuckle end $F'$ of swinging piece F, said swinging piece F being pivoted by pin or pivot $F^2$ to the fork *a* of the bicycle and working against or on the guard-piece G, fixed to said fork. The upper part of casing $A'$ of adjustable standard or leg has a cross-slot therein, in which slot the sector-piece $F^3$ works, which sector-piece has holes $F^4$ for the reception of a stop or a padlock when the standard or leg is in its outward or supporting position. The top end $A^3$ has protruding therefrom a pin $E^6$, which pin on the movement of the swinging piece takes under spring-piece $E^7$, clipped or otherwise fixed onto standard C of the bicycle, so that the support or rest is held in position, and the leverage exerted by spring E prevents the front wheel from swerving or turning.

In use when a bicycle fitted with an adjustable support or rest as hereinbefore described is in motion the lower end A of the telescopic casing $A'$ (containing the indrawn lower end A) is forced between the jaws $H'$ of spring-clip H, which takes around the lower end of the fork *a* of the bicycle and is thus securely carried free of the ground and of the wheels. When the rider dismounts, all he has to do to support his bicycle is to move, Figs. 2 and 3, thumb-piece $A^7$, draw the lower end A of the standard or leg from out of the telescopic casing $A'$, move the lower end of said standard or leg outwardly, so that the upper end $A^3$ will press upon the tire of the front wheel *b* and its spring $E^5$ will receive pin $E^2$, and the bicycle will be supported firmly and prevented from self-movement. When pin $E^2$ is a fixed pin, the leg may be locked in this position and so secure the machine from being removed on its wheels. On dismounting from the bicycle, Fig. 1, and withdrawing the lower end of the standard or leg from casing $A'$ the rider swings plate F until it takes position (shown in Fig. 1) within the guard G and then moves the lower end of the support or rest outwardly on the hinge or pivot $A^8$ and upon sector F and may lock the mechanism and the bicycle in this position by a padlock through one of the holes in said sector $F^3$ and thus secure the support or rest in position and the bicycle from being removed on its wheels..

It is to be understood that though I have described and illustrated what I now deem to be the most suitable and most efficacious manner of carrying my invention into practical effect many other methods as would easily suggest themselves to the ordinary mechanic might be used without departing from the nature of my present invention, and therefore I do not confine myself to any particular construction of my improved adjustable support or rest for bicycles and its attachments so long as the nature thereof be retained.

Having now particularly described and explained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. The combination with a bicycle of a telescopic standard or leg hinged to a plate upon a pivot-pin on the fork of said bicycle and having its upper end adapted to press upon the tire of the front wheel and to catch a holding-spring substantially as herein described and explained.

2. The combination with a bicycle of a standard or leg pivotally connected to a support on the fork, a telescoping leg movable in and out of said standard and having a thumb-piece moving in a slot in the standard and adapted to engage offsets at top and bottom of the said slot, a spring mounted at one end upon the top of the standard and a pin movable lengthwise in a socket-bearing attached to the frame, to engage an opening in the spring upon the head of said standard, substantially as described.

Dated this 1st day of April, 1896.

GEO. WOOLLEY.

Witnesses:
FRED WALSH,
E. S. COSTELLO.