

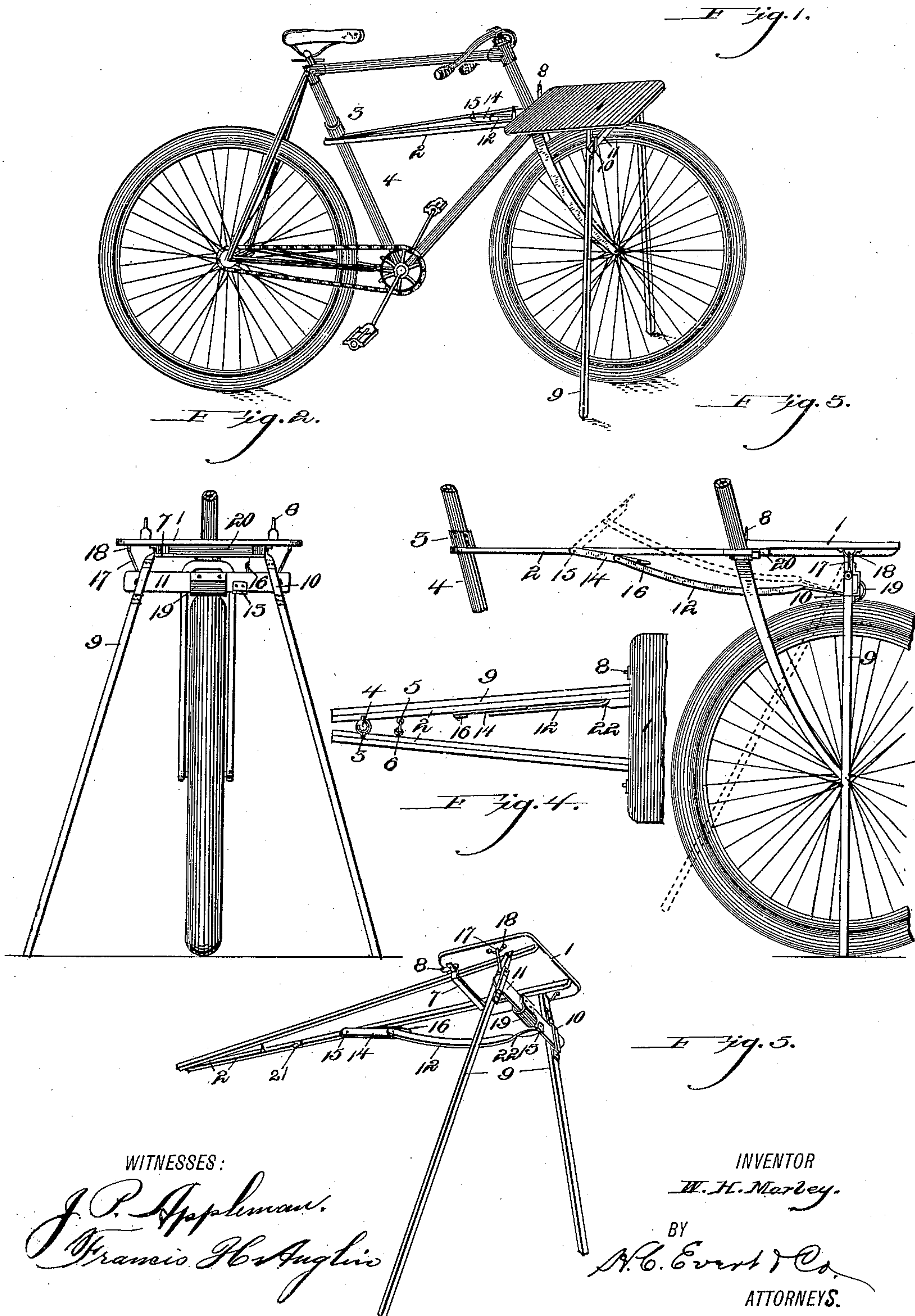
No. 615,625.

Patented Dec. 6, 1898.

W. H. MARLEY.  
LUGGAGE CARRIER AND SUPPORT FOR BICYCLES.

(Application filed Jan. 12, 1898.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## LUGGAGE-CARRIER AND SUPPORT FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 615,625, dated December 6, 1898.

Application filed January 12, 1898. Serial No. 666,469. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. MARLEY, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Luggage-Carriers and Supports for Bicycles, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in combined luggage-carriers and supports for bicycles and the like.

The principal features of the invention consist in a table or platform that is supported from two horizontal braces attached to the bicycle-frame and in two movable supporting-braces that are adapted to be swung downwardly from the platform or table for supporting the wheel in the upright position. Other novel features of the invention reside in the peculiar construction whereby these supporting-rods are forced outwardly during their downward movement and are drawn inwardly in their upward movement, so that when the same are completely folded they will lie in close engagement with the horizontal braces which support the platform or table. Another novel feature of the invention resides in the mechanism for operating these supporting-rods, which is so arranged as to be within easy reach of the rider and may be operated by him without dismounting from the machine.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like figures of reference indicate similar parts throughout the several views, in which—

Figure 1 is a perspective view showing my improved carrier and support in position on the wheel. Fig. 2 is a front view of the carrier and a portion of the bicycle. Fig. 3 is a side view of the carrier-support and a portion of the wheel, also showing in dotted lines the operation of the supports and their lever. Fig. 4 is a top plan view of a portion of the carrier, showing the supports in the folded position. Fig. 5 is a perspective view of the support and carrier.

The invention is designed particularly for the carrying of heavy packages—such as cans of milk, baskets of groceries, and the like— and to accommodate such articles I provide a platform or table 1, which has readily affixed to its underneath side two horizontal supporting-rods 2, that converge toward each other at their free end and engage the underneath edge of the collar 3, rigidly attached to the upright posts 4 of the bicycle-frame. For convenience in placing this collar on its post the same is preferably made in two sections, which are clamped to the post and secured by means of bolts or rivets, and in order to hold the two supporting-braces 2 underneath the collar I provide an eyelet 5 on the inner face of one brace, which is engaged by a hook 6, attached to the inner face of the other brace. This hook may be disengaged and the two ends sprung slightly apart in order to place the supporting-braces in their position and remove the same therefrom.

For binding the two braces firmly to the underneath side of the table or platform 1 I provide a keeper 7, which may be attached to the underneath side of the said table or platform and extends across both the braces and may also be used as a binding means for the small standards 8, that are attached to the rear edge of the table or platform and through which a strap or other fastening device may be passed and tied around the basket or other parcel for holding the same firmly on the platform.

In connection with a carrier of this description it is preferable that some sort of support be provided which would serve to hold the wheel in a perfectly upright position while the parcel was being secured to the table or platform and also for convenience when it is desired to unload the same; and to this end I have pivotally secured to the horizontal braces 2 supporting-standards 9, which are forced downwardly into the supporting position by means of a novel mechanism which will now be described. These standards have secured to their front face near their pivoted end keepers 10, in which engages a cross-bar 11, which is operated by means of a lever 12, secured to the said cross-bar by a hinge 13 at its one end and having its other end fulcrumed to an auxiliary lever 14, the one end



of which is pivotally secured at 15 to one of the supporting-braces 2 and the free end of which is formed into a suitable handle 16 to form a means for readily operating the same.

5 The outward movement of the standards while descending and the inward or folding movement of the same while being elevated is controlled by means of small hooked rods 17, having their one end rigidly attached to  
10 the supporting-standards 9 near their pivoted end and their other end engaging a staple 18, which is secured to the underneath face of the table at a point outside of the two supporting-braces 2, but extending in a straight  
15 line across the supporting table or platform. The cross-bar 11 also has affixed thereto a clevis or band 19, which is arranged centrally of the cross-bar, which forms a brake that is adapted to come in contact with the front  
20 wheel of the bicycle to check the speed of the same when the supporting-standards are lowered.

In various forms of bicycles the platform or table may be supported by engaging the  
25 fork-crown, though in other machines it may be necessary to secure a suitable clamp 20 at a point directly above the head-crown, upon which the rear edge of the table can rest. This construction is, however, one of minor  
30 detail and will of course depend thoroughly upon the construction of the wheel to which the carrier and support is attached.

The manner in which the carrier is attached to the bicycle will be readily understood from  
35 the foregoing, and I now wish to describe the particular movement that is described by the supporting-standards.

Assuming that the supporting-standards are in their folded position, as shown in Fig.  
40 4 of the drawings, the operator grasps the handle 16 of the lever 14 and by pressing upon the same and forcing it downward causes the lever 12 to press outwardly on the cross-bar 11, thereby carrying the supporting-stand-  
45 ards 9 to their vertical position, as shown in the various views. As these supporting-standards are moving downward the small hooked rods 17, attached thereto, serve to force the said standards outwardly from each  
50 other, so that by the time they assume their vertical position the lower ends have been extended so as to form a sufficient support in order to hold the bicycle in the upright position, and the lever 14 having described a  
55 half-circle in its movement the handle 16 therefor engages the lever 12 and retains the standards in their position. When the reverse movement is given to this operating-lever 14, the small hooked rods 17 serve to  
60 draw the supporting-standards toward each other as they are lifted out of the ground and bring the same into close contact with the supporting-braces 2 by the time the supporting-standards have assumed their entirely-  
65 folded position, where they are held by reason of the lever 14 being thrown beyond the center of the pivotal point for the lever 12, the

said lever 14 being supported from a suitable catch 21, provided therefor on that one of the  
standards 2 to which the said lever 14 is con- 70 nected. As the supporting-standards are forced downwardly into their supporting position the band 19, forming the brake, is brought into engagement with the tire of the machine, so as to instantly check the speed 75 of the same.

In order to construct the lever 12 in one piece and permit the hinging of the one end to the cross-bar 11 and the pivotal securing of the opposite end to the lever 14, the bar 80 may be twisted, as shown at 22, which may be done at any desired point of its length, and thereby obtaining a flat portion for the hinged end, the remaining portion of the same being hung edgewise, so as to work in con- 85 junction with the lever 14.

While the foregoing appears to embody the preferable form of my invention, yet I do not wish to limit myself to this exact construction, as it will be noted that various changes may 90 be made in the details of construction without departing from the general spirit of my invention.

Having now fully described my invention, what I claim as new, and desire to secure by 95 Letters Patent, is—

1. A bicycle luggage-carrier and support consisting of a platform, two horizontal braces secured to said platform, a clip secured to the under side of the platform and spanning the 100 horizontal braces, a supporting-block rigidly secured to the bicycle-head and engaging the under side of the platform, a fastening means carried on the opposite end of the supporting-arms, a clamp secured to the rear post and 105 engaging the end of the supporting-arms to prevent the same from tilting when luggage is placed on the platform, supporting-standards pivotally secured to the horizontal braces, and a lever for operating said sup- 110 ports, substantially as shown and described.

2. In a bicycle luggage-carrier and support, consisting of a supporting-block secured to the head of the bicycle, a clamp secured to the rear post, a platform, clips secured to the 115 under side of said platform, horizontal braces secured to the platform and passing through said clips, said braces engaging the sides of the supporting-block, the opposite end of said braces engaging the clamp secured to the 120 rear post, means carried by said braces to lock the carrier in position, supporting-standards pivotally secured to the horizontal braces, levers pivotally secured to the bicycle and supporting-standards whereby the same 125 are held in a raised position when the bicycle is in motion, substantially as shown and described.

3. A combined luggage-carrier and support, comprising a platform or table supported by 130 two horizontal braces attached thereto, and which are suitably supported from the frame of the machine, in combination with two supporting-standards pivotally secured to said



braces, and means for operating said standards, so as to cause the free ends of the same to move outwardly while the standards are assuming the vertical position and for causing the same ends to move toward each other while the standards are being elevated to the folded position, substantially as shown and described.

4. A bicycle support and luggage-carrier, consisting of a platform or table, supporting-braces for same, standards pivotally secured to said braces and connected by a cross-bar, a brake carried by said cross-bar and a hinged lever attached to said bar and pivotally connected to an operating-lever connected to one of the braces, substantially as shown and described.

5. A combined luggage-carrier and bicycle-

support, comprising a table or platform having supporting-braces attached thereto, standards pivotally secured to said braces, a lever for operating said standards, and hooked rods connected to the said standards near their pivoted ends and engaging the staples secured to the underneath side of the platform or table, and forming a means for controlling the movement of the standards while being raised or lowered, substantially as shown and described.

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

WILLIAM H. MARLEY.

Witnesses:

A. M. WILSON,

WILLIAM E. MINOR.