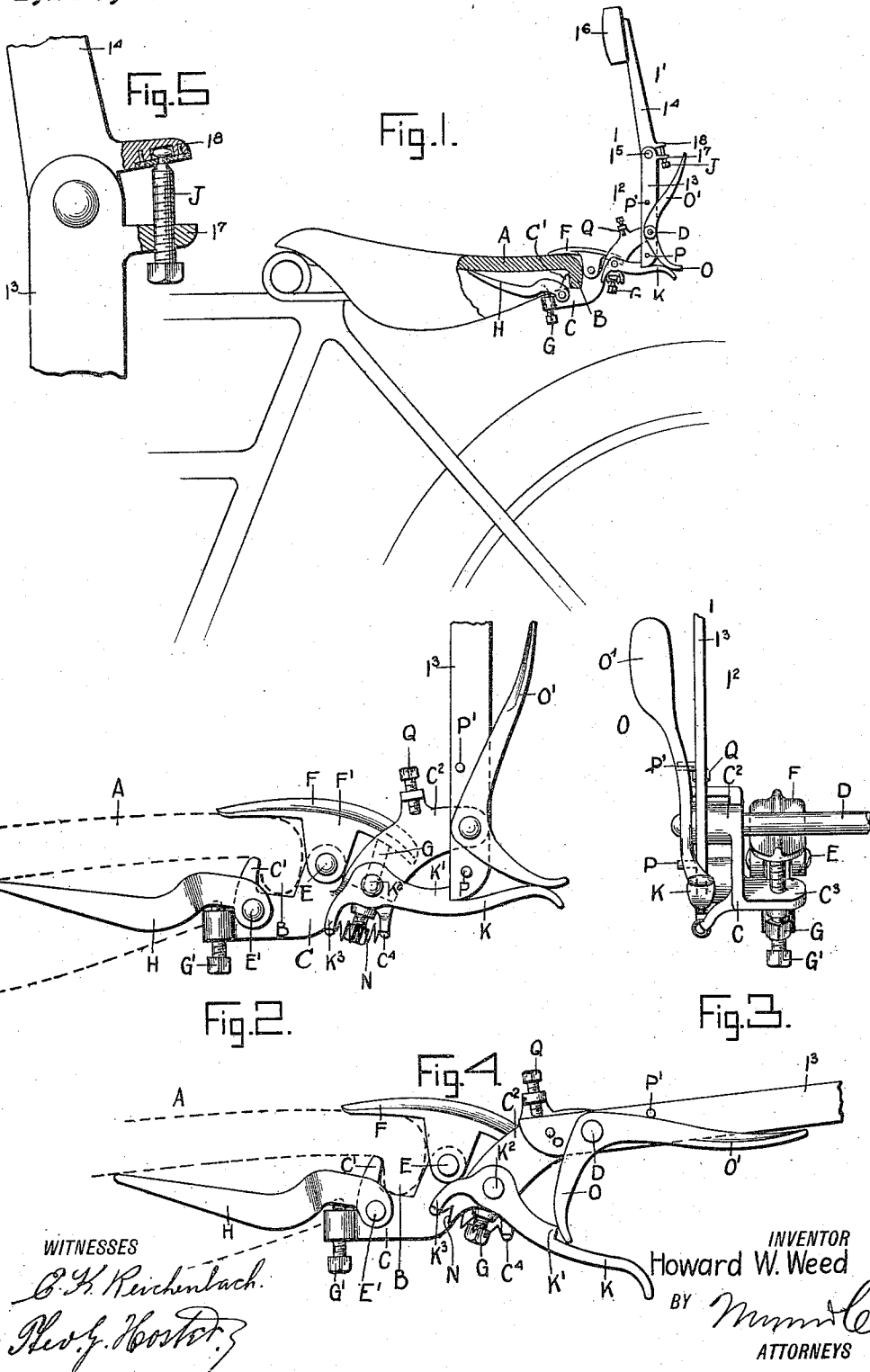


H. W. WEED.
FOLDING BACK ATTACHMENT.
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HOWARD W. WEED, OF STAMFORD, CONNECTICUT.

FOLDING-BACK ATTACHMENT.

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Specification of Letters Patent.

Patented July 13, 1915.

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To all whom it may concern:

Be it known that I, HOWARD W. WEED, a citizen of the United States, and a resident of Stamford, in the county of Fairfield and State of Connecticut, have invented a new and Improved Folding-Back Attachment, of which the following is a full, clear, and exact description.

The invention relates to folding backs for motor cycles, bicycles and like machines and devices, and its object is to provide a new and improved folding back attachment whereby the folding back can be conveniently and securely attached to a seat, and the back can be readily swung into an approximately horizontal position for mounting or dismounting purposes, or into an upright position for supporting the back of a rider.

In order to accomplish the desired result, use is made of a bracket provided with a forwardly extending hook adapted to engage the depending rim of a saddle, a clamping jaw pivoted on the said bracket and adapted to engage the top of the saddle at the rear end thereof, and a releasing lever fulcrumed on the back and adapted to rest on the under side of the saddle. Use is also made of a spring-pressed catch fulcrumed on the bracket and adapted to be engaged by the back to hold the latter in upright position, and an actuating and releasing lever under the control of the rider and fulcrumed on the back, the said lever being adapted to engage the catch to disengage the latter from the back, and the said lever having a limited swinging motion on the back to allow of swinging the back into horizontal or upright position.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the folding back attachment as applied to the saddle of a motor cycle, a portion of the saddle being shown in section; Fig. 2 is an enlarged side elevation of part of the folding back attachment; Fig. 3 is a rear end elevation of the same; Fig. 4 is a side elevation of the folding back attachment with the back in horizontal position; and Fig. 5 is an enlarged side elevation of a portion of the folding back with parts in section and showing more particularly the adjusting device.

The saddle A provided with the folding back attachment is of the usual construction and is provided at its rear with a depending flange B engaged by the hooks C' of two brackets C provided with rearwardly extending arms C² connected with each other by a rod D a distance in the rear of the saddle A. Each of the brackets C is provided with a transverse pivot E on which is mounted to swing an arm F' of a clamping member F adapted to engage with its forward end the top of the saddle A at the rear end thereof. The rear end of the clamping member F is engaged by a set screw G screwing in a lug C³ forming part of the bracket C, as plainly indicated in Fig. 3. The forward end of each clamping member F is located directly above the hook C' of the corresponding bracket C, as plainly indicated in Fig. 3. The forward end of each clamping member F is located directly above the hook C' of the corresponding bracket C so that when the set screw G is screwed up a swinging motion is given in an upward direction to the rear end of the clamping member F so as to press the forward end of the said clamping member down in firm contact with the rear end of the saddle A to fasten each bracket C in position on the saddle. Each bracket C is provided with another clamping member H mounted to swing on a pivot E' held on the forward end of the bracket C below the hook C', and this clamping member H projects forwardly under the saddle A and is adapted to engage with its free end the under side of the saddle a distance in advance of the hook C'. A set screw G' screws in the forward end of each bracket C and abuts against the under side of the clamping member H so that on screwing up the set screw G' an upward swinging movement is given to the clamping member H to engage the free end thereof firmly with the under side of the saddle A. By the arrangement described, the brackets C are securely attached to the saddle A and the said brackets with their clamping members and a cross rod D form a support for the folding back I. The folding back I is provided with an upper portion I' and a lower portion I², of which the lower portion is formed of side bars I³ mounted to swing loosely on the ends of the cross rod D. The upper portion I' of the folding back I is formed of two side bars I⁴ pivotally connected at their lower ends by pivots I⁵ with the upper ends

of the side bars I³. The upper ends of the side bars I⁴ are connected with each other by a back rest I⁶ which is preferably upholstered so as to form a cushioned support for the back of the rider. The adjacent ends of the side bars I³, I⁴ are provided with lugs I⁷, I⁸ arranged opposite each other and preferably projecting rearwardly, as plainly indicated in Fig. 1. In the lug I⁷ screws a screw J abutting against the lug I⁸ so as to permit of swinging the upper portion I¹ of the back forward or backward to suit the convenience of the rider.

The lower end of each side bar I³ is adapted to engage the shoulder K' of a catch K pivoted at K² on the corresponding bracket C, and the catch K is provided at its pivotal end with a heel K³ pressed on by a spring N connected with a lug C² depending from the corresponding bracket C. Thus by the arrangement described, the shoulder K' of the catch K is normally in engagement with the lower end of the corresponding side bar I³ of the folding back to hold the latter in upright position. The free end of each catch K is adapted to be engaged by a releasing lever O attached to the rod D, which latter forms the fulcrum for the said releasing lever, and the lever is provided with a handle O' extending upwardly outside of the corresponding side bar I³ to permit the rider to conveniently take hold of the handle O' with a view to swing the same downward and rearward for moving the catches K out of engagement with the side bars I³ of the folding back, thus permitting the folding back to swing rearwardly and downwardly into horizontal position, as indicated in Fig. 4. The downward swinging movement of each arm O is limited by a stop pin P on the side bar I³ and the forward and upward swinging movement of the handle O' is limited by a stop pin P' on the side bar I³ of the lower portion I². When it is desired to swing the folding back from horizontal position into upright position after the rider has mounted the saddle A, it is only necessary for the rider to reach backward with either hand to engage the corresponding handle O' and swing the same upward and forward to impart a like swinging movement to the folding back so that the lower ends of the side arms I³ finally engage the shoulders K' of the two catches K. When this takes place, the folding back I is held in upright position to permit the rider to conveniently lean against the back rest I⁶. The downward swinging movement of the side arms I³ of the folding back I is limited by a set screw Q screwing on the arms C² of the bracket C, as will be readily understood by reference to Fig. 4.

It will be noticed that when the rider leans heavily against the back rest I⁶ of the

back, a sliding or accidental disconnection of the support from the saddle is prevented owing to the clamping members F and H and the hooks C' engaging the saddle in the relation mentioned. When it is desired to place the folding back attachment to a saddle, the screws G, G' are unscrewed a distance to permit engaging the hook C' with the rim B and to engage the clamping members F and H with the saddle, after which the screws G and G' are screwed up to firmly press the clamping members F and H in contact with the saddle. It will further be noticed that when the rider leans against the back rest I⁶ the folding back is not liable to swing rearwardly and downwardly into open position owing to the lower ends of the side arms I⁴ abutting against the shoulders K' of the catches K.

The handles O' extend rearwardly so that the arms O are not liable to be accidentally actuated by the rider when shifting his position on the saddle.

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

1. An attachment for fastening a folding back to a saddle of a motor cycle, bicycle or like machine, comprising a bracket on which the folding back is mounted, the bracket having a hook adapted to engage the depending rim at the rear of a saddle, and clamping members pivoted on said bracket and one being adapted to engage the top of the saddle and the other the under side thereof.

2. An attachment for fastening a folding back to a saddle of a motor cycle, bicycle or like machine, comprising a bracket on which the folding back is mounted, the bracket having a hook adapted to engage the depending rim at the rear of a saddle, clamping members pivoted on said bracket and one being adapted to engage the top of the saddle and the other the under side thereof, and means mounted on the said bracket and engaging the said clamping members to move the latter in firm contact with the saddle.

3. An attachment for fastening a folding back to a saddle of a motor cycle, bicycle or like machine, comprising a bracket on which the folding back is mounted, the bracket having a hook adapted to engage the depending rim at the rear of a saddle, clamping members pivoted on said bracket and one being adapted to engage the top of the saddle and the other the under side thereof, and set screws screwing in the said bracket and engaging the said clamping members to swing the same in firm clamping contact with the saddle.

4. An attachment for fastening a folding back to a saddle of a motor cycle, bicycle or like machine, comprising a bracket on which the folding back is mounted, the bracket

having a hook adapted to engage the depending rim at the rear of a saddle, and clamping members pivoted on said bracket and one being adapted to engage the top of the saddle directly opposite the said hook and the other clamping member being adapted to engage the bottom of the saddle a distance in advance of the said hook.

5 5. A folding back for the saddle of a motor cycle, bicycle and like machine, comprising a support held on the saddle, a back mounted to swing on the said support from upright to horizontal position and vice versa, a spring-pressed catch pivoted on the said support and engaged by the said back to hold the latter in upright position, and a releasing lever pivoted on the said support and adapted to engage the said catch to swing the latter out of engagement with the said back.

10 6. A folding back for the saddle of a motor cycle, bicycle and like machine, comprising a support held on the saddle, a back mounted to swing on the said support from upright to horizontal position and vice versa, a spring-pressed catch pivoted on the said support and engaged by the said back to hold the latter in upright position, and a releasing lever pivoted on the said support and adapted to engage the said catch to swing the latter out of engagement with the said back, the latter having stops for limiting the swinging movement of the said releasing lever in either direction.

7. A folding back for the saddle of a motor cycle, bicycle and like machine, comprising a support held on the saddle, a back mounted to swing on the said support from upright to horizontal position and vice versa, a spring-pressed catch pivoted on the said support and engaged by the said back to hold the latter in upright position, a releasing lever pivoted on the said support and adapted to engage the said catch to swing the latter out of engagement with the said back, and a stop on the said support and adapted to be engaged by the said back to hold the latter in horizontal position.

8. In a folding back for the saddle of a motor cycle, bicycle and like machine, a support, a back having a lower section pivoted to the support and an upper section having its lower end pivoted to the upper end of the lower section to swing forwardly and rearwardly, the said sections having at their pivoted ends oppositely disposed lugs, and a set screw screwing in one lug and against the other lug to adjust the upper section relative to the lower section.

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

HOWARD W. WEED.

Witnesses:

THEO. G. HOSTER,
PHILIP D. ROLLHAUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."