

No. 841,450.

PATENTED JAN. 15, 1907.

M. ROSEN.

CUSHIONED HANDLE BAR FOR VELOCIPEDES.

APPLICATION FILED JAN. 15, 1906.

Fig. 1.

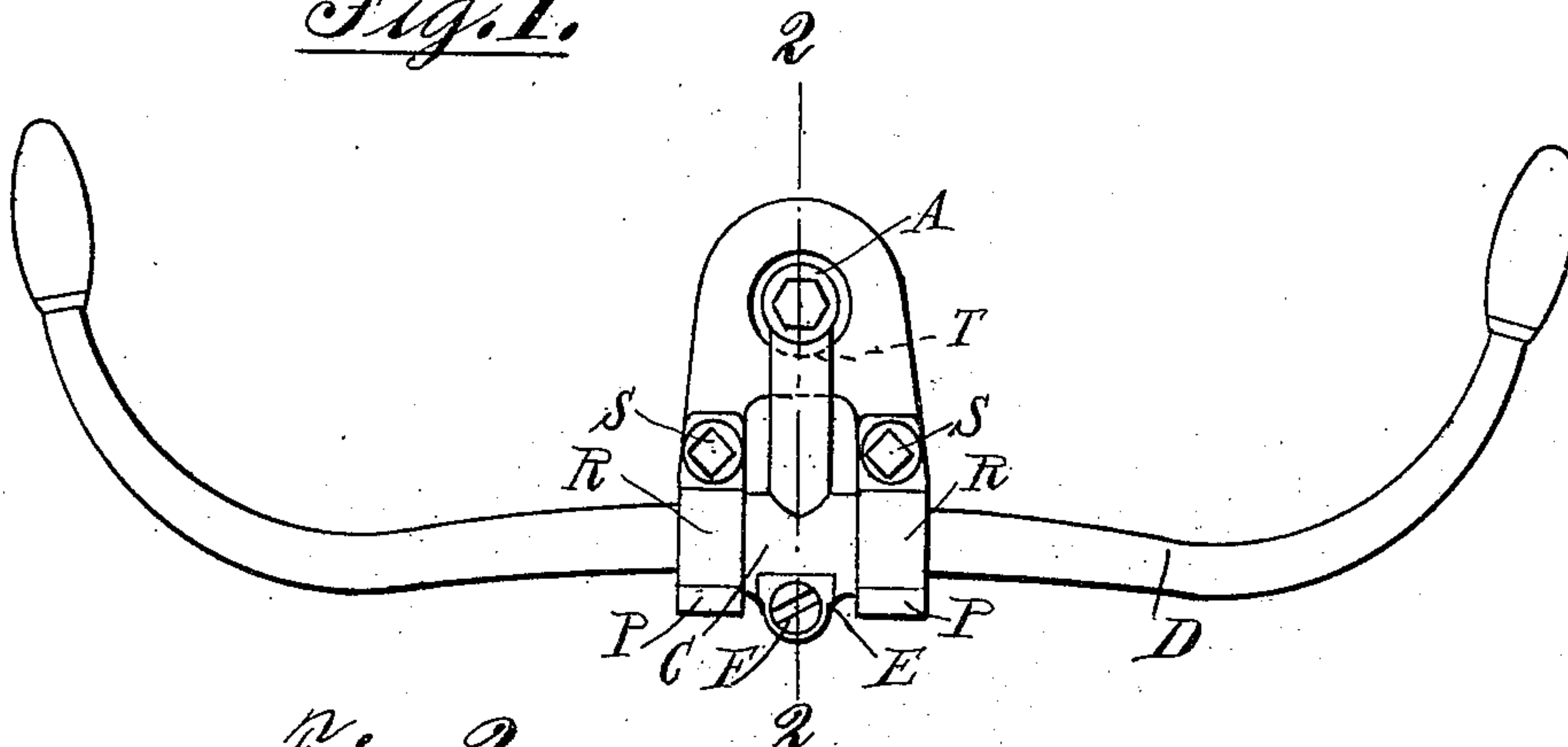
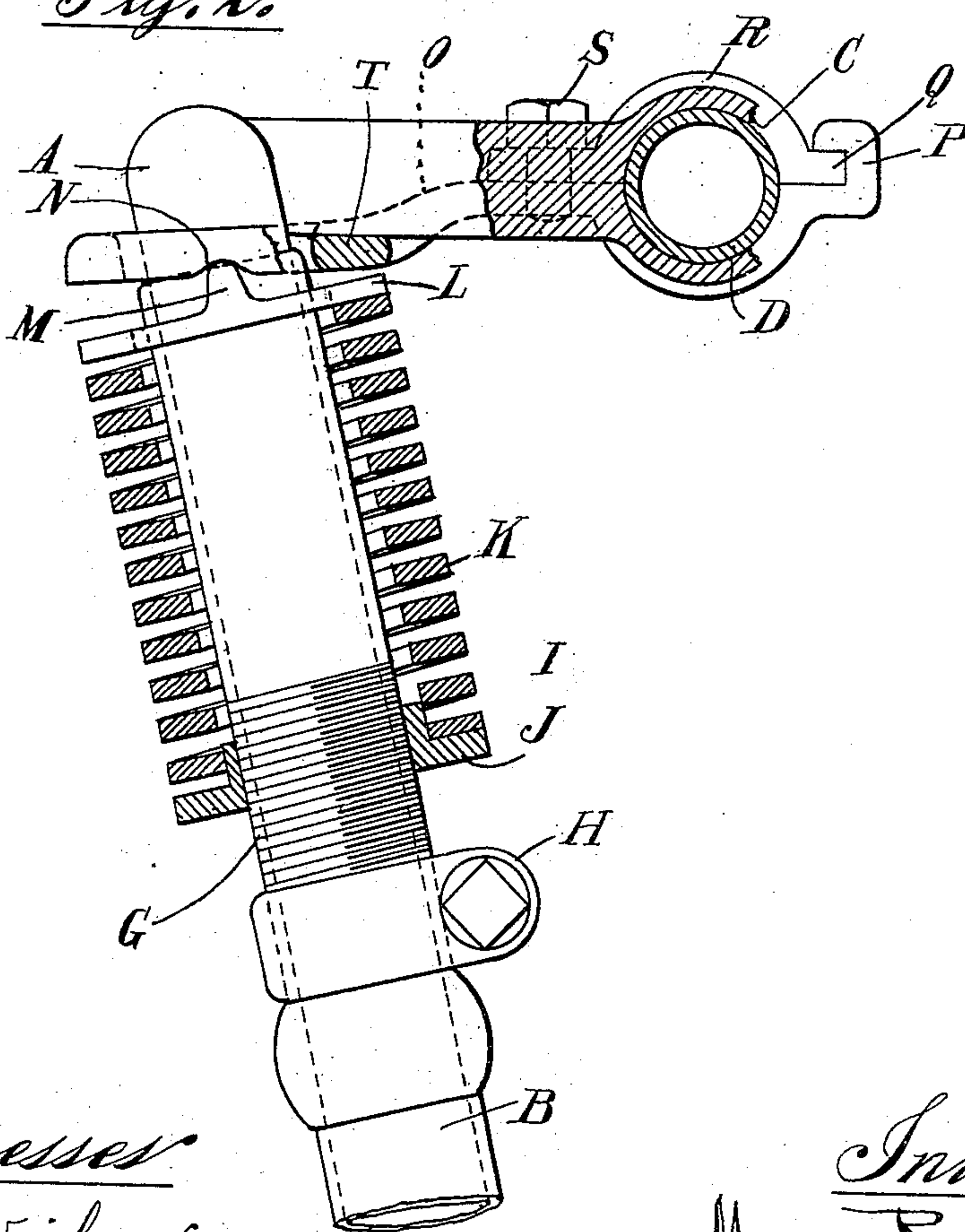


Fig. 2.



Witnesses

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CUSHIONED HANDLE-BAR FOR VELOCIPEDES.

No. 841,450.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MEYER ROSEN, a citizen of the United States, residing at Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Cushioned Handle-Bars for Velocipedes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a novel construction in a cushioned handle-bar for velocipedes, motor-cycles, and the like, the object being to provide a handle-bar which is so cushioned as to prevent the jarring vibrations to which the frame, and particularly the steering-gear, of the velocipede is subjected from being transmitted to the arms of the rider or operator; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a top plan view of a handle-bar and adjacent frame portions of a velocipede constructed in accordance with my invention. Fig. 2 is a central vertical section of the same on the line 2 2 of Fig. 1.

The main object of my invention is to provide a cushioned handle-bar which may be easily applied to any existing bicycle, velocipede, or motor-cycle in which handle-bars are employed and to provide a device which can be readily adjusted to variations in pressure thereon due to the various weights of the riders or operators, and, further, to provide simple efficient cushioning means.

To these and other ends I provide a substantially L-shaped member A, which is adapted to be mounted in one end in the hollow stem B of the fork of a bicycle or the like and which at its other free end is provided with a journal C, in which the handle-bar D is pivotally mounted between its ends, said journal C being adjustable, or, in other words, expansible and consisting of a split collar having two projections E, through which a set-screw or bolt F passes, by means of which said collar or journal may be adjusted in an obvious manner. The arm of said member A carrying said journal C is preferably horizontally disposed, and the other arm thereof is inclined to accord with the inclination of the stem B. Said horizontal arm is

disposed to project forwardly of the velocipede-frame. Mounted upon the first-named arm of said member A is an externally-threaded sleeve G, which preferably fits snugly thereon and at its lower end rests upon a suitable annular shoulder disposed about said arm and consisting, preferably, of the clamp H. Mounted on said sleeve is an internally-threaded collar I, having an external annular flange J, on which a spiral compression-spring K rests at its lower end. Supported on the upper end of said spring K is a washer L, provided at diametrically opposite points with projections M on its upper face, which are adapted to enter recesses N in the lower face of the free end portion of a U-shaped member O, secured at the free ends of its arms to said handle-bar D on either side of said journal C. The said U-shaped member O is provided on the free ends of its arms with overhanging projections or hooks P, in which lugs Q on the ends of straps R are adapted to fit, said straps being bent to substantially semicircular form between their ends to provide recesses in which the handle-bar D is received and at their other ends being provided with openings for the passage of the set-screws S, entering threaded openings in said U-shaped member O rearwardly of the portion thereof receiving and engaging said handle-bar D. Said U-shaped member O and straps R together constitute friction-clamps engaging said handle-bar and simultaneously constitute collars adapted to engage the ends of the journal C to hold said handle-bar against lateral movement therein. The said U-shaped member O may be provided between its ends with a cross-piece T, adapted to engage the horizontal arm of said member A to limit the upward movement of said member O. The said washer or bearing-plate L is provided with a central opening of larger diameter than said threaded sleeve J, so that during the oscillations of said member O the same will not strike said sleeve G. At the same time said washer or bearing-plate L serves as a means for equalizing the pressure on the upper end of said spring K in an obvious manner.

My said device is very simple and efficient and will clearly serve to relieve the arms and body of the rider or operator of a velocipede or motor-cycle of the jar and vibration to which the same are ordinarily subjected and which serve to rapidly tire the person.

I claim as my invention--

1. A cushioned handle-bar comprising in combination, an L-shaped member mounted in the upper end of the stem of the fork of a velocipede and having a forwardly-projecting horizontal arm, a journal in the free end of said arm, a handle-bar journaled therein, a threaded sleeve on the other arm of said L-shaped member, a collar adjustably mounted thereon, a compression-spring resting on said collar and a U-shaped member rigidly secured to said handle-bar at the free ends of its arms at each side of said journal, said spring being adapted to normally hold said U-shaped member at the upper limit of its movement.

2. A cushioned handle-bar comprising in combination, an L-shaped member mounted in the upper end of the stem of the fork of a velocipede and having a forwardly-projecting horizontal arm, a journal in the free end of said arm, a handle-bar journaled therein, a threaded sleeve on the other arm of said L-shaped member, a collar adjustably mounted thereon, a compression-spring resting on said collar, and a U-shaped member rigidly secured at the free ends of its arms to said handle-bar at each side of said journal, and a bearing-plate resting upon the upper end of said spring and held thereby in engagement with the free end of said U-shaped member to hold the latter normally at the upper limit of its movement.

3. A cushioned handle-bar comprising in combination, an L-shaped member mounted in the upper end of the stem of the fork of a velocipede and having a forwardly-projecting horizontal arm, a journal in the free end of said arm, a handle-bar journaled therein, a threaded sleeve on the other arm of said L-shaped member, a collar adjustably mounted

thereon, a compression-spring resting on said collar, and a U-shaped member rigidly secured at the free ends of its arms to said handle-bar at each side of said journal, a bearing-plate resting on the upper end of said spring and diametrically oppositely disposed projections on the upper face of said bearing-plate entering recesses in the free end portion of said U-shaped member to fulcrum said plate therein, said spring being adapted to hold said U-shaped member normally at the upper limit of its movement.

4. A cushioned handle-bar comprising in combination, an L-shaped member mounted in the upper end of the stem of the fork of a velocipede and having a forwardly-projecting horizontal arm, a journal in the free end of said arm, a handle-bar journaled therein, a threaded sleeve on the other arm of said L-shaped member, a collar adjustably mounted thereon, a compression-spring resting on said collar, and a U-shaped member rigidly secured at the free ends of its arms to said handle-bar at each side of said journal, a bearing-plate resting on the upper end of said spring and diametrically oppositely disposed projections on the upper face of said bearing-plate entering recesses in the free end portion of said U-shaped member to fulcrum said plate therein, said U-shaped member being limited in its upward movement by said horizontal arm of L-shaped member, said spring being to hold said U-shaped member at the upward limit of its movement.

In testimony whereof I have signed my name in presence of two subscribing witnesses.

MEYER ROSEN.

Witnesses:

RUDOLPH WM. LOTZ,
LEE MITCHELL.