

(No Model.)

A. A. KELLOGG.
BICYCLE.

No. 583,483.

Patented June 1, 1897.

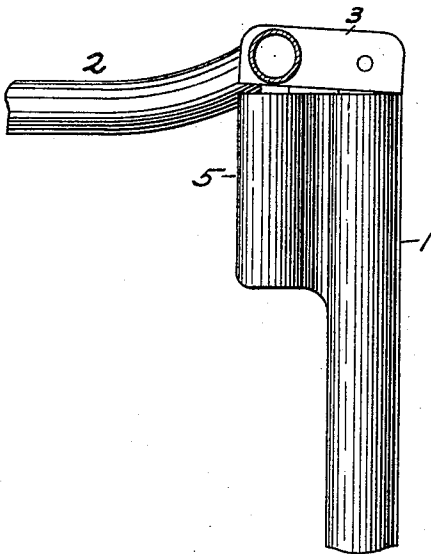


Fig. 1

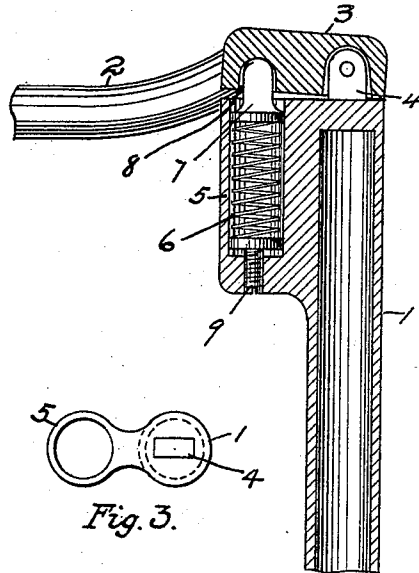


Fig. 2.

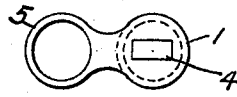


Fig. 3.

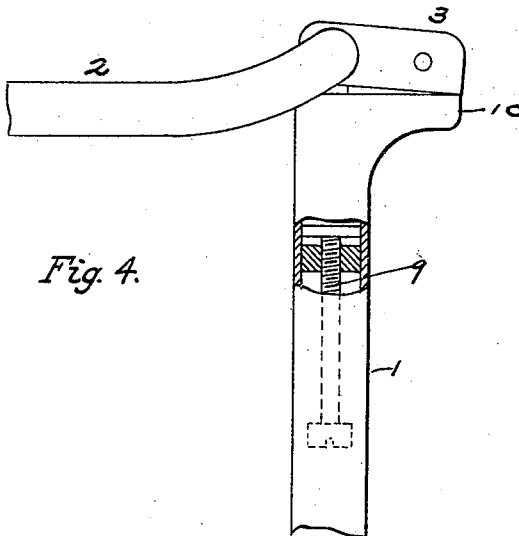


Fig. 4.

Witnesses.

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UNITED STATES PATENT OFFICE.

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BICYCLE.

SPECIFICATION forming part of Letters Patent No. 583,483, dated June 1, 1897.

Application filed November 7, 1896. Serial No. 611,383. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. KELLOGG, a citizen of the United States, residing at Clinton, in the county of Henry and State of Missouri, have invented certain new and useful Improvements in Bicycles, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to that class of devices which are intended to relieve the hands of the rider of a bicycle from the effects of jars and shocks communicated to the handle-bar by the movement of the machine by the use of a spring of some form so arranged in connection with the handle-bar and handle-bar rod as to take up these jars and shocks.

The object of this invention is to obtain a simple and efficient device for the above-named purpose, in which device the operating-spring will be inclosed; and it consists in the combination, substantially as hereinafter more fully set forth, with the handle-bar, of a horizontal piece attached to the same and pivoted at its front end to the vertical rod which supports the handle-bar, a suitable adjustable inclosed compressible spring, and a piston which bears against the rear end of the horizontal piece.

In the accompanying drawings, Figure 1 is a view in elevation of one form of the device. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a plan view of the horizontal piece connecting the handle-bar to the handle-bar rod; and Fig. 4 is a view, partly in elevation and partly in section, of a modified form of my device.

In the several figures like numerals refer to like parts.

Referring to the drawings, 1 is the vertical rod which supports the handle-bar and which is adjustably supported in the head of the machine.

2 is the handle-bar; but this bar, instead of being attached directly to the vertical bar 1, is attached to a horizontal piece 3, which is pivotally supported at its front end on a suitable lug 4, attached to the end of the rod 1.

In the device shown in Figs. 1 and 2 the pivot of the horizontal piece 3 is at or near the axis of the rod 1, and to the rear side of the rod 1 is attached a socket 5 for the reception of a helical spring 6, which acts to throw up the

rear end of the horizontal piece 3. For the purpose of better effecting this result and also to relieve the pivot of piece 3 from lateral strain a piston 7 is provided, the head of which bears upon the end of the spring 6 and the rod of which is rounded off at its end and projects into a recess 8 in the under side of the horizontal piece 3. This recess is preferably concave, so that in connection with the rounded end of the piston the free movement of the horizontal piece is secured. For the purpose of adjustment the lower end of the spring bears upon the end of a rod 9, screwed into the bottom of the socket 5 and capable of being operated from the under side of the socket. Other means of adjustment may be adopted.

In the form of the device shown in Fig. 4 the lug to which the horizontal piece is pivoted is attached to the lug 10, projecting from the front side of the rod 1, and the spring is supported in this rod, which is made hollow, as is usual.

It will be seen that the spring is inclosed, that the device is simple and compact and does not mar the appearance of the bicycle, and that the pivot of horizontal piece 3 is protected against lateral strain.

I have described and shown a helical spring as used; but I can use any form of compressible spring.

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

In a bicycle, the combination of the handle-bar rod 1, a horizontal piece 3 pivoted at one end to said rod and having a recess 8 at the other, a handle-bar attached to the recessed end of said piece 3, a socket 5 located under the recess, a spring 6 in said socket, and a piston 7 in said socket having its head bearing upon the upper end of the spring and the end of its rod projecting into the recess 8, substantially as shown and described.

In testimony whereof I have hereunto subscribed my name this 2d day of November, A. D. 1896.

ALBERT A. KELLOGG.

Witnesses:

FREDK. F. NETHERTON,
A. C. AVERY.