No. 671,816. Patented Apr. 9, 1901.

L. D. COOLEY.

DRESS GUARD FOR BICYCLES.

(Application filed July 24, 1900.)

(No Model.)

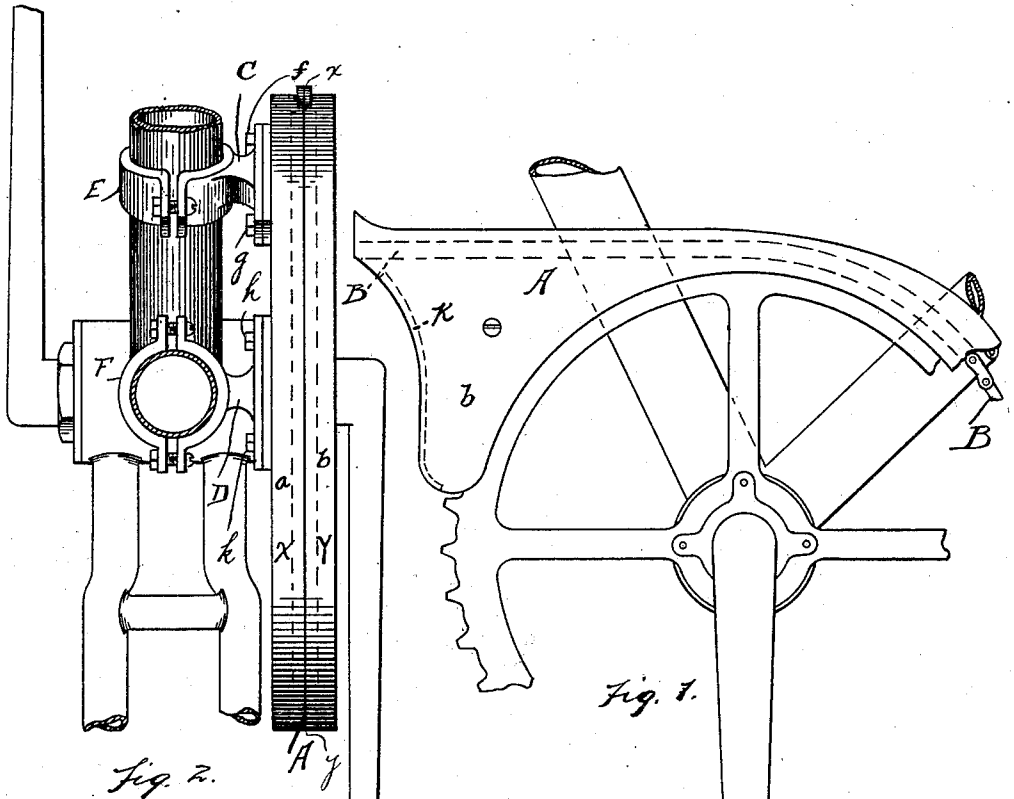


Fig. 2.

Fig. 1.

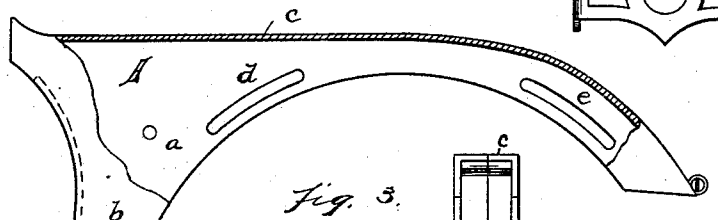


Fig. 3.

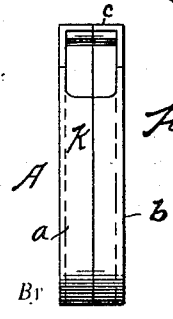


Fig. 4

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DRESS-GUARD FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 671,816, dated April 9, 1901.

Application filed July 24, 1900. Serial No. 24,636. (No model.)

To all whom it may concern:

Be it known that I, LESTER D. COOLEY, a citizen of the United States, residing at Battlecreek, county of Calhoun, State of Michigan, have invented a certain new and useful Improvement in Dress-Guards for Bicycles; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to clothes-guards for bicycles, and has for its object an improved guard adapted to be attached to the frame of a bicycle and arranged to extend over a portion of the chain and a portion of the front sprocket-wheel and to prevent the trousers-leg of the user of the bicycle from catching between the chain and the sprocket-wheel.

In the drawings, Figure 1 is a side elevation showing the guard in position with respect to the sprocket-wheel. Fig. 2 is a plan showing the guard and the brackets by which it is attached to the frame. Fig. 3 is a sectional elevation showing the means by which the guard proper is adjustably connected to its supporting-brackets. Fig. 4 is a rear elevation of the guard proper.

The guard consists of a cover A, arranged to engage over the chain B and over the top rear quadrant or the top half of the front sprocket-wheel. The guard A has side walls *a* and *b*, the inner or lower edges of which are curved to a line that is concentric with the wheel when the guard is in position on the wheel. The two dropping side walls *a* and *b* are united by a cross-wall *c*, that forms the top of the guard, and the forward part of this is curved concentric with the inner or lower boundary. Toward the rear the cross-wall *c* diverges from the lower boundary on a line which is substantially tangent or parallel to a tangent thereto, and the side walls *a* and *b* are continued to the rear of the tangent cross-wall. At the rear the vertical walls *a* and *b* are united by a cross-wall which extends upward, but stops below the top, leaving an opening for the chain. At the extreme rear the top of the casing bends upward slightly, giving a wide vertical mouth to the passage for the chain. The upward bend of the top of the casing is especially useful when the attachment is used with that class of bicycles in which the driving sprocket-wheel is journaled on a lower plane than the sprocket-wheel and in which the upper run of the sprocket-chain is on a nearly horizontal line, so that without the broadened opening the chain would approach closely to the case.

That side of the guard which lies next to the posts or frame of the bicycle is provided with two curved slots *d* and *e*.

C and D indicate two brackets arranged to engage the frame and to be held thereto by curved binding-plates E and F and by bolts *f g h k*.

The bicycle-chain or sprocket-chain enters the case at the rear under the top cross-wall *c*, between the side walls *a* and *b*, above the rear cross-wall K, and passes forward entirely closed in by the guard.

The guard can be adjusted by means of the bolts, which pass through the slots *d* and *e* from the brackets, and any suitable relation between the top wall *c* and the chain can be secured by means of such adjustment.

The guard is preferably made in two parts X and Y, the division between the parts on a vertical line *x y* longitudinal of the guard.

What I claim is—

1. A dress-guard for bicycles comprising a cover adapted to extend over the top and upper rear quadrant of the sprocket-wheel, provided with side walls, and with a rear wall uniting the side walls beneath the chain-opening, one of said side walls being provided with arched slots *d*, *e*, whereby the guard can be adjustably secured to the bicycle, substantially as described.

2. A dress-guard comprising a cover adapted to extend over the top and upper rear quadrant of the sprocket-wheel and provided with an opening for the entrance of the sprocket-chain thereinto, widened by curving the top of the cover upward to form a vertically-wide mouth, one of the side walls of the guard being provided with arched slots, whereby it is rotatively adjustable, with respect to the sprocket-wheel, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

LESTER D. COOLEY.

Witnesses:
JOHN N. GOODRICH,
CHARLES F. BURTON.