No. 660,229. Patented Oct. 23, 1900.

E. STRATTON & F. A. COLE.

ALARM.

(Application filed Dec. 23, 1899.)

(No Model.)

Fig 1

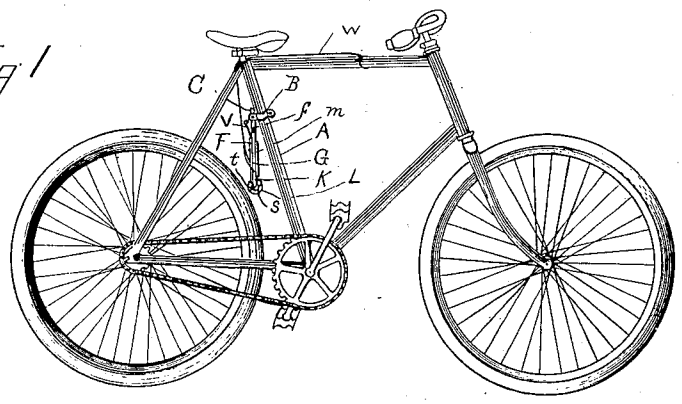


Fig 2

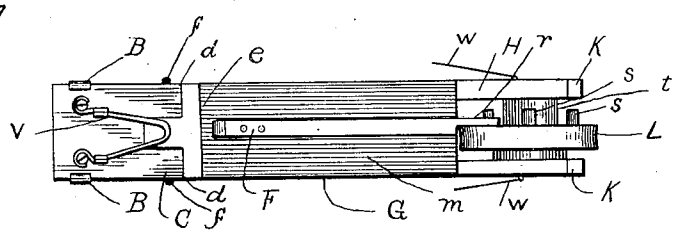


Fig 3

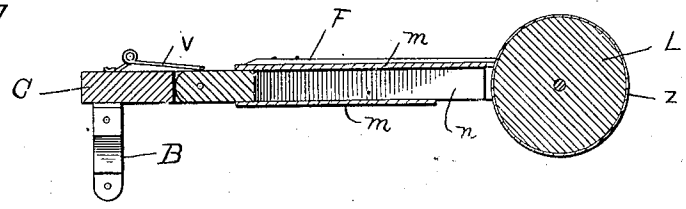


Fig 4

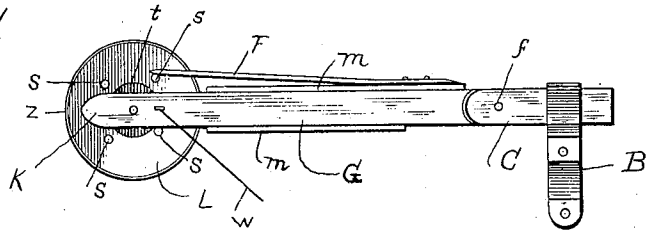
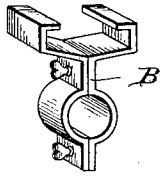


Fig 5.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EUGENE STRATTON AND FRED A. COLE, OF NEW YORK, N. Y.

ALARM.

SPECIFICATION forming part of Letters Patent No. 660,229, dated October 23, 1900.

Application filed December 23, 1899. Serial No. 741,458. (No model.)

To all whom it may concern:

Be it known that we, EUGENE STRATTON and FRED A. COLE, citizens of the United States, and residents of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Bicycle-Alarms; and we do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation of a bicycle having our invention applied thereto. Fig. 2 is a plan view of our device. Fig. 3 is a longitudinal sectional view of the same. Fig. 4 is a side elevation of the same. Fig. 5 is a detail view of the clip B.

This invention relates to alarms for bicycles; and its object is to provide an alarm of sufficiently loud and penetrating character to serve its purpose, while at the same time it is distinguished from the bell-alarms or whistles used on railway-cars.

The invention consists in the novel construction and combinations of devices, as hereinafter set forth.

In the accompanying drawings the letter A designates the post of a bicycle to which the alarm is designed to be attached, the rear post being preferred. The alarm is attached to the post by means of the clip B, the branches of which engage the adjustable body-piece or bracket C, which has lateral portions *d*, which the jaws *e* of the clip engage, being held to adjusted position by means of the bolt *f* of the clip. The block or body-piece C when adjusted is held in rigid position, and to its lower end is pivoted the movable or pendent part G of the alarm, consisting of the fork H, having the arms K, between the ends of which is pivoted the operating-wheel L of the alarm. The interval between the branches of the fork H is bridged or covered by a soundboard *m*, which extends nearly to the periphery of the wheel L. A similar soundboard *n* is provided on the other surface of the fork.

To the hinge end of the fork is secured the end of the spring alarm-blade P, which extends along the soundboard *m* in contact therewith and projects beyond said soundboard by an extension or finger *r*, which extends alongside the operating-wheel in position to be engaged by the lateral studs *s* of said wheel. The operating-wheel is preferably made with a concave edge or rim portion *t*, which is usually provided with a rubber bearing *z* to engage the tire of the bicycle-wheel.

A disengaging spring V is provided at the hinge portion of the device to hold the alarm part G away from the bicycle-wheel when it is not desired to put it in operation. This spring is secured upon the outside of the bracket C and has an arm overlapping and bearing against the frame of the sound-box at a point beyond its pivot. When, however, it is to be sounded, the cord *w*, which is attached to the alarm portion and extends over a bearing of the bicycle-frame at *g*, is pulled upon, drawing the alarm backward, so that its wheel engages the tire of the bicycle-wheel and is rotated thereby. The rotation of the wheel L brings its lateral studs into rapid intermittent engagement with the end of the finger of the blade P, lifting it at each engagement from the soundboard and allowing it to slap back them, producing a rapid alarm of loud and distinctive character, the sound of which is intensified and made to carry by the soundboard or sound-box provided on the piece G.

The adjustability of the body-piece or bracket C is designed to provide a means whereby it may be arranged to suit the framework of different bicycles.

The parts of this alarm may be made of metal or wood, but the latter is preferred, especially for the soundboard.

Having described this invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination with a bicycle-frame, of a clip, a bracket adjustably secured to said clip, a sound-box hinged to said bracket, a spring alarm-blade upon the outside of said box, a toothed wheel journaled outside said box for engagement with said blade, and means for effecting the engagement and the disengagement of said wheel with the bicycle-wheel, substantially as specified.

2. The combination with a bicycle-frame, of

a clip, a bracket adjustably secured to said clip, a sound-box hinged to said bracket, a spring alarm-blade upon the outside of said box, a toothed wheel journaled outside said box in extensions of side pieces thereof, and adapted for engagement with said blade, and means for effecting the engagement and the disengagement of said wheel with the bicycle-wheel, substantially as specified.

3. The combination with a bicycle-frame, of a clip, a bracket secured to said clip, a sound-box hinged to said bracket, a spring alarm-blade upon the outside of said box, a toothed wheel journaled outside said box in extensions of side pieces thereof, engaging said blade, and adapted for engagement with the bicycle-wheel, a spring secured to the outside of said bracket, and having an arm overlapping and bearing upon the frame of said sound-box at a point beyond its pivot, to normally hold said wheel and sound-box away from the bicycle-wheel, together with means for temporarily maintaining said toothed wheel in engagement with the bicycle-wheel, substantially as specified.

4. The combination with a bicycle-frame, of a clip, a bracket secured to said clip, a sound-box hinged to said bracket, a spring alarm-blade upon the outside of said box, a toothed wheel journaled in extensions of side pieces of said box, and engaging said blade, and means for effecting the engagement and disengagement of said wheel with the bicycle-wheel, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

EUGENE STRATTON.
FRED A. COLE.

Witnesses:
JAMES MCCARRON,
HENRY MILLER.