(No Model.)

F. RHIND.

BICYCLE BELL.

No. 559,950. Patented May 12, 1896.

Fig. 1.

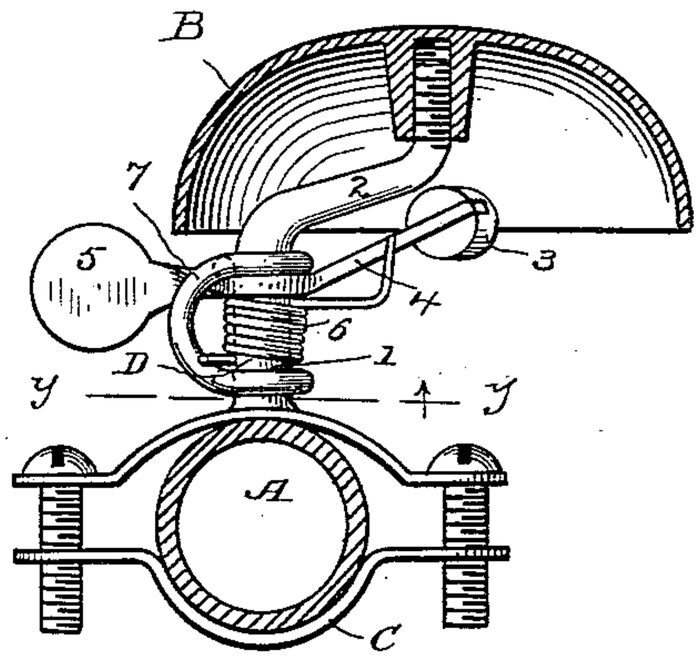
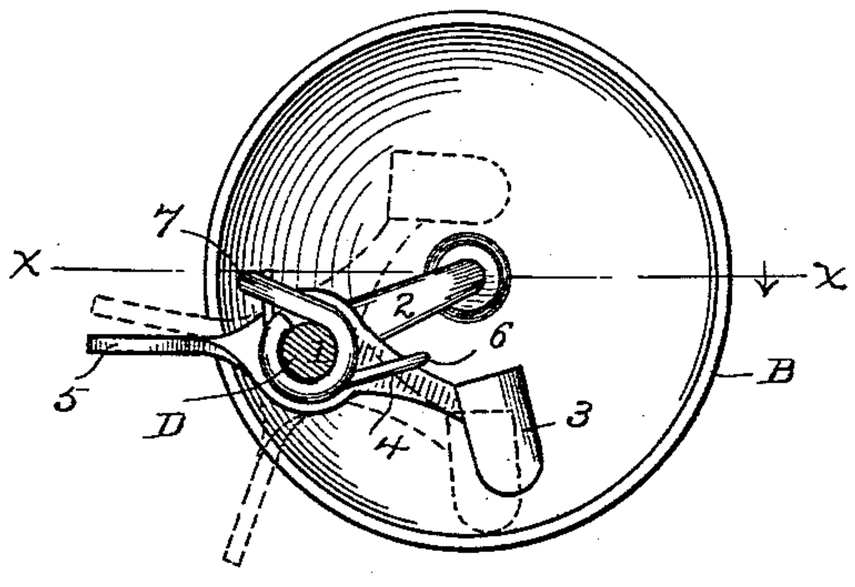


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANK RHIND, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE BRIDGEPORT BRASS COMPANY, OF SAME PLACE.

BICYCLE-BELL.

SPECIFICATION forming part of Letters Patent No. 559,950, dated May 12, 1896.

Application filed November 25, 1895. Serial No. 569,982. (No model.)

To all whom it may concern:

Be it known that I, FRANK RHIND, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Bicycle-Bells; 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 has for its object to produce a single-stroke signal-bell for bicycles and similar uses which shall be simple and inexpensive to produce, perfectly durable, shall consist of the smallest number of parts possible, in which the operating mechanism shall be under the gong, and in which the blows of the striker shall be delivered directly—that is to say, in substantially a radial line to the inner surface of the gong—thus avoiding the slightest glancing action and insuring that the instant the blow is delivered the striker will rebound from the gong and not affect the quality or volume of tone to the slightest extent by checking the vibrations of the gong, that being a result which necessarily follows to a greater or less extent when the blow of the striker is a glancing blow.

With these ends in view I have devised the simple and novel signal-bell of which the following description, in connection with the accompanying drawings, is a specification, letters and numbers being used to designate the several parts.

Figure 1 is a section on the line *x x* in Fig. 2; and Fig. 2 is a section on the line *y y* in Fig. 1, looking in the direction of the arrow in each instance.

A denotes an object to which the bell is attached—as, for example, the handle-bar of a bicycle.

B denotes the gong, C the clamp by which it is locked in place, and D a standard, extending from the clamp, by which the gong is carried. The standard consists of a vertical portion 1, which extends upward from the clamp, and an offset arm 2, extending therefrom by which the gong is carried.

3 denotes the striker, which is carried by an arm 4, journaled on the standard below the offset arm, and provided with a finger-piece 5 for convenience in operation.

6 denotes a spring by which the striker-arm is held at its normal position. I have shown an ordinary coil-spring, one arm of which bears against the striker-arm and the other against a fixed yoke 7, by which the parts are held in position. By offsetting the gong in the manner shown and by journaling the striker-arm on the standard I am enabled to place all the operative parts—excepting, of course, the finger-piece—under the gong, to provide ample room for the sweep of the striker-arm and striker in delivering the blow and also to insure that the blow of the striker upon the gong shall be delivered in substantially a radial line to the inner surface of the gong.

Having thus described my invention, I claim—

1. In combination a gong, a clamp, a standard extending upward from the clamp and having an offset arm by which the gong is carried, a striker-arm journaled on the standard below the offset arm, to provide room for the sweep of the striker-arm a striker carried by the striker-arm and acting in substantially a radial line to the inner surface of the gong and a spring by which the striker-arm is held at its normal position.

2. The combination with a gong, a clamp, and a standard extending upward from the clamp and having an offset arm by which the gong is carried, of a striker-arm journaled on the standard below the offset arm, a striker carried by the striker-arm and acting in substantially a radial line to the inner surface of the gong, a spring by which the striker-arm is held at its normal position and a yoke by which the striker-arm and spring are held in place on the standard.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK RHIND.

Witnesses:
A. M. WOOSTER,
S. V. RICHARDSON.