(No Model.)

A. A. PAGE.

BICYCLE BELL.

No. 525,862. Patented Sept. 11, 1894.

Fig. 1

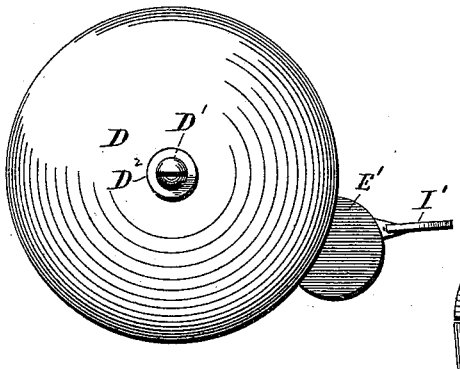


Fig. 2

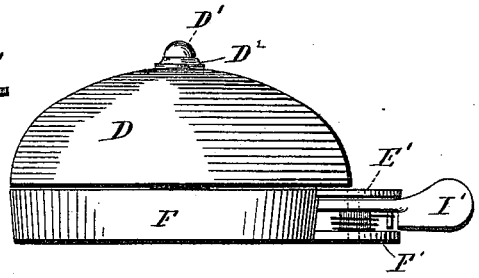


Fig. 5

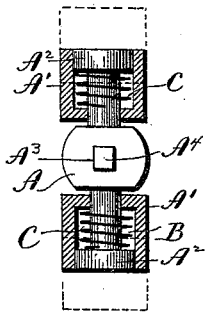


Fig. 3

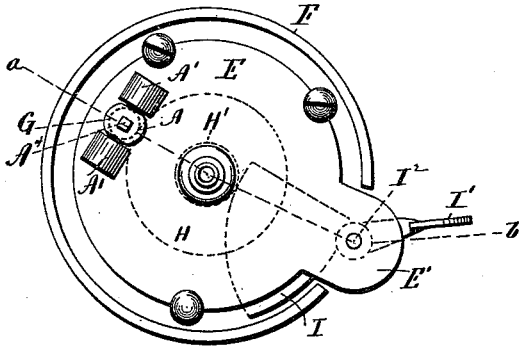
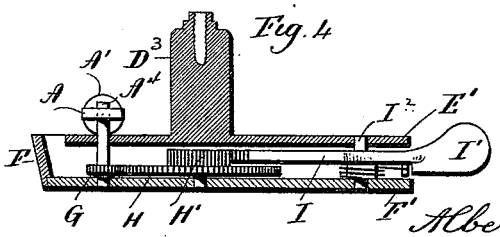


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

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BICYCLE-BELL.

SPECIFICATION forming part of Letters Patent No. 525,862, dated September 11, 1894.

Application filed June 18, 1894. Serial No. 514,924. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. PAGE, of East Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Bicycle-Bells; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a plan view of one form which a bell constructed in accordance with my invention may assume; Fig. 2, a view thereof in side elevation; Fig. 3, a plan view of the bell with the bell proper removed; Fig. 4, a sectional view of the bell on the line *a*—*b* of Fig. 3; Fig. 5, a detached enlarged view of the hammer-carrier and hammers.

My invention relates to an improvement in bicycle-bells, the object being to produce at a low cost of manufacture, a strong bell, composed of few parts, not liable to derangement, and constructed so as to give a striking and effective alarm.

With these ends in view, my invention consists in certain details of construction and combinations of parts as will be hereinafter described and pointed out in the claim.

As herein shown, the hammer-carrier of the bell consists of a central head A, and two oppositely projecting corresponding cylindrical arms A′ A′, each of which is provided at its outer end with a stop-washer or collet A^2. The said head A has formed in it a square central opening A^3, adapting it to be applied to the squared upper end of a short rotary hammer-arbor A^4, which is actuated in any approved manner. Each arm of the hammer-carrier is provided with a cylindrical, longitudinally movable, chambered hammer B, mounted concentrically upon it, and containing a spiral spring C, the inner end of which impinges against the closed inner end of the hammer, while its outer end impinges against the stop washer A^2 on the end of the arm of the carrier. Under this construction each hammer is normally retracted by the force of its spring, which is overcome by centrifugal force when the arbor is rotated, at which time the hammers slide outward on their arms, and strike the edge of the bell D, by which they are thrown inward. As herein shown, the hammer-arbor A^4 is journaled in the removable movement plate E, and the base F of the bell, and provided with a small pinion G, which is meshed into by a large gear-wheel H, carrying a pinion H′, which is meshed into by a toothed segment I, formed at the inner end of an outwardly projecting finger-lever I′, hung upon a stud I^2, journaled in ears E′ and F′ formed integral with the plate E and base F before mentioned. A spring J, encircling the stud I^2, and engaged at one end with the base F, and at the other end with the finger-lever I′, is employed for moving the same in one direction, after it has been moved in the opposite direction against the force of the spring by the fingers of the person using the bell. The bell proper D, is secured by means of a screw D′ and washer D^2, to the upper end of a post D^3, standing upward from the center of the movement-plate E. Although I have described the construction of the bell shown, I would have it understood that my improved hammer may be used in combination with any bell of suitable construction, inasmuch as the operation of the hammer is independent of the particular character of the mechanism employed to rotate the hammer-arbor.

I am aware, however, that a hammer-carrier mounted upon a rotatable arbor and provided with one or more yielding hammers or strikers thrown outward against the bell by the action of centrifugal force, is not new, and I do not claim that construction broadly. I am also aware that a steam engine governor has been constructed with chambered balls mounted on horizontally arranged, oppositely projecting arms, and containing springs arranged to resist the centrifugal force tending to throw the balls outward, and I do not claim that construction broadly.

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

In a bicycle bell, the combination, with the base thereof, of a movement located in the said base, a spring-controlled finger-lever connected with the movement for actuating it, a post connected with the base and located centrally thereto, a bell mounted upon the

said post, a rotary arbor connected with the movement so as to be actuated in opposite directions thereby, a hammer carrier applied to the said arbor, and constructed with oppositely projecting straight arms, provided at their outer ends with stops, cup-shaped hammers centrally applied to the said arms and longitudinally movable thereon, and springs located within the hammers and interposed between the inner ends of the same and the said stops, and operating to normally retract the hammers, substantially as and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ALBERT A. PAGE.

Witnesses:

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