No. 616,015. Patented Dec. 13, 1898.

E. D. ROCKWELL.

BICYCLE BELL CLAMP.

(Application filed Oct. 29, 1898.)

(No Model.)

Fig. 1

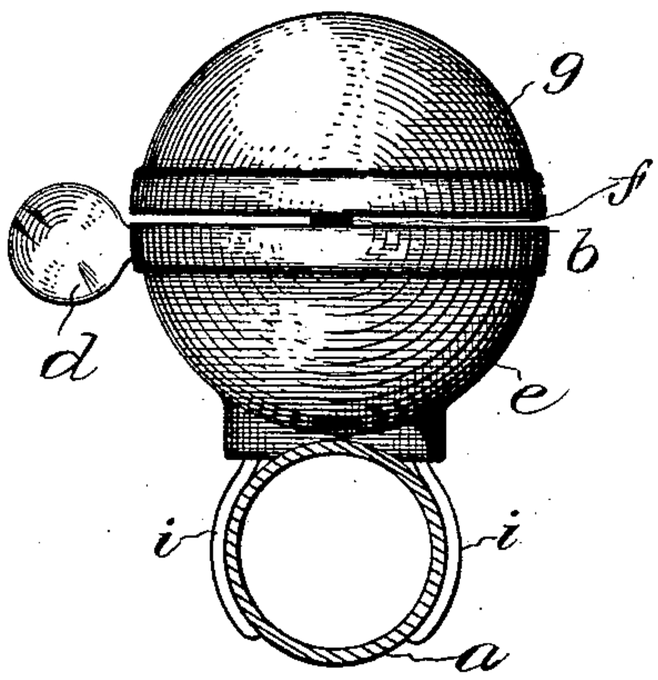


Fig. 2

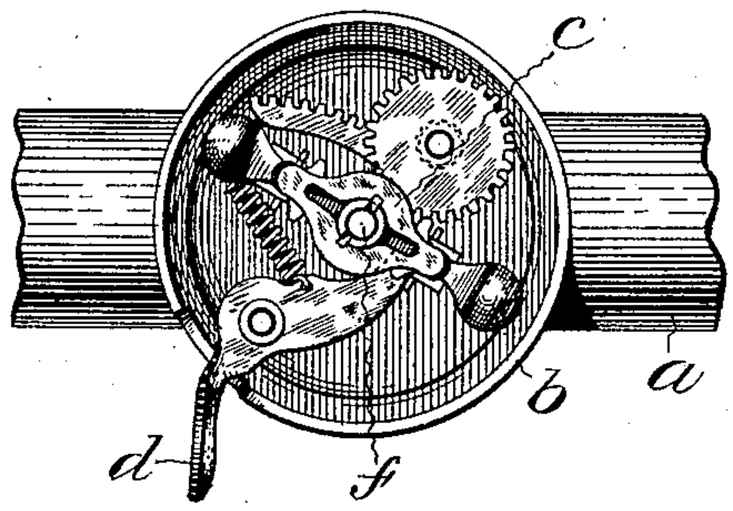


Fig. 3

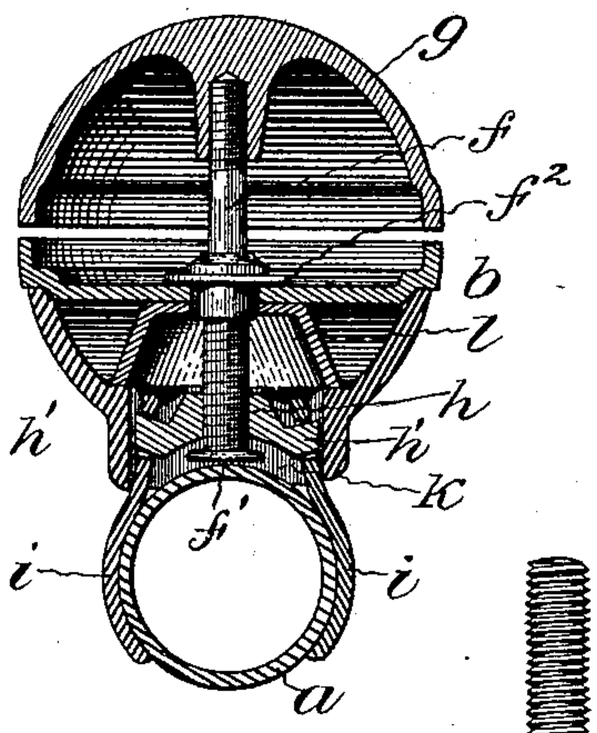
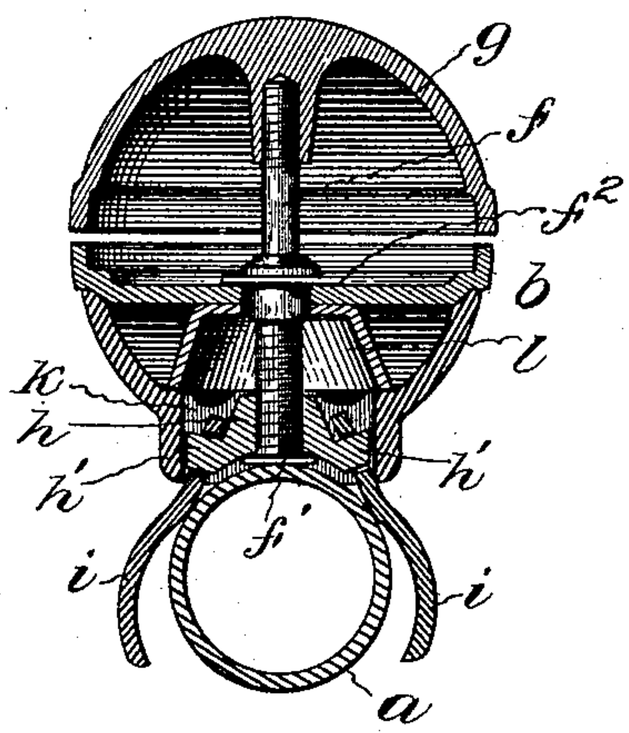


Fig. 4



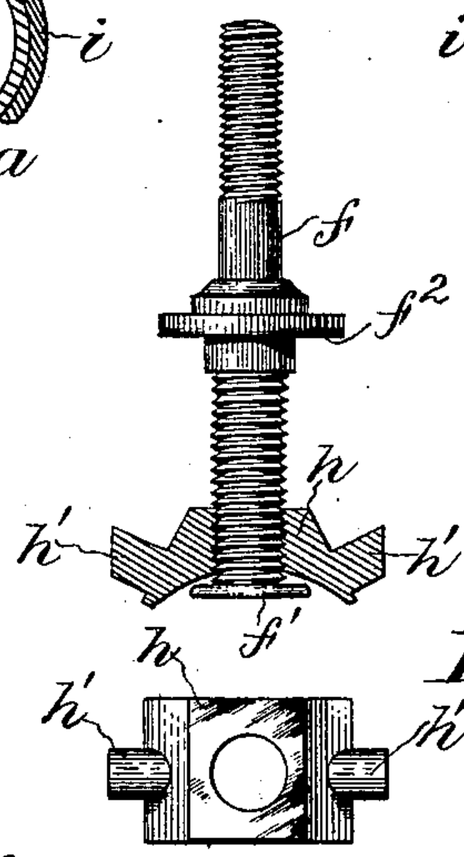


Fig. 5

Fig. 6

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UNITED STATES PATENT OFFICE.

EDWARD D. ROCKWELL, OF BRISTOL, CONNECTICUT, ASSIGNOR TO THE BRISTOL BELL COMPANY, OF SAME PLACE.

BICYCLE-BELL CLAMP.

SPECIFICATION forming part of Letters Patent No. 616,015, dated December 13, 1898.

Application filed October 29, 1898. Serial No. 694,912. (No model.)

To all whom it may concern:

Be it known that I, EDWARD D. ROCKWELL, a citizen of the United States, and a resident of Bristol, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Bicycle-Bell Clamps, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

My invention relates to the class of devices used for securing a bell or the like to the handle-bar of a bicycle or other part of a vehicle; and the object of my invention is to provide a device of this class whereby an easy and quick attachment may be made to a handle-bar or the like with the parts of the device assembled; and a further object is to provide a clamp that shall be automatically adjustable to handle-bars or the like having a wide range as to sizes and without the use of special tools.

To this end my invention consists in the device as a whole, in the combination of parts, and in the details and their combination, as hereinafter described, and more particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a view in elevation of a bell having my improved clamp. Fig. 2 is a plan view of the base with the gong removed. Fig. 3 is a detail view, in vertical section, through the bell, with the striking mechanism removed and showing the clamp closed. Fig. 4 is a like view showing the clamp open. Fig. 5 is a detail view, on an enlarged scale, of the post and in section through the carrier. Fig. 6 is a detail plan view of the carrier.

In the accompanying drawings the letter *a* denotes a support, as a handle-bar of a bicycle; *b*, a base for supporting the bell-striking mechanism; *c*, the bell-striking mechanism; *d*, the thumb-lever, and *e* the clamp-plate of a bell especially adapted for use with my improved clamp. A post *f* is loosely mounted in the base, extending therethrough, and bears on its upper end a gong *g* and on its lower end a carrier *h*, that is screw-threaded for the reception of the post. Rigid jaws *i* are pivoted to this carrier and project through the clamp-plate, the jaws being curved to fit a handle-bar or like part. A carrier-socket *k* is formed in the clamp-plate *e* for the reception of the carrier, the walls of this socket forming a stop for the jaws. In the form shown the jaws are suspended from pins *h'*, located on the carrier *h* in a manner to permit a free swinging movement of the jaws under certain conditions. The post *f* has a head *f'*, located underneath the carrier, and a shoulder f^2, adapted to rest on the base *b*.

In the operation of the device, the post *f* being turned, as by means of the gong *g*, the carrier *h* is drawn upward, carrying with it the jaws *i*. These jaws are pivoted to and have a swinging movement on the carrier and are extremely rigid and free from flexibility, so that as the jaws are drawn inward the backs thereof, coming in contact with the stop *e'*, force the jaws toward each other and tightly grasp any article placed between them. The stop *e'* may be properly termed a "gripping-stop," for the reason that it not only prevents separation of the jaws beyond a certain degree, but also causes them to move toward each other in the longitudinal movement of the jaws to tightly grip any article placed between them.

The peculiar construction of the device enables the jaws to be pivoted on the carrier at points quite close together, thus insuring a compact device, and the forming of the jaws, when so pivoted, to grasp an article of considerable size causes that part of the jaws coming in contact with the gripping-stop to be arranged at such angle to the plane (crosswise of the jaw) of longitudinal movement of the jaws that a great swinging movement of the jaws is obtained in a comparatively slight longitudinal movement thereof, thus accommodating the device to supports to which it may be attached having a wide range of sizes.

The device has marked advantages over devices of the prior art in that it is applicable to a wide range of sizes of supports in a comparatively slight movement of the carrier. The device is so constructed that the parts are always assembled and there is no danger of loss and consequent delay in taking the device apart for the purpose of plac-

ing it in position, as is the case in prior devices. The difficulty of reassembling the parts present in prior devices is absent from my improved structure.

I claim as my invention—

1. In a bracket attachment for bicycles, a base having a stop to control the movement of swinging jaws, a carrier supported by the base and having movement in an axial direction thereof, rigid jaws pivoted to the carrier and adapted to be moved inward by contact with the stop and means for moving the carrier in an axial direction.

2. In a bracket attachment for bicycles and the like, in combination, a base having a stop, a carrier supported by the base, jaws pivoted to the carrier and having a swinging movement controlled by contact with the stop, a post secured to the carrier and means for moving the post to cause the movement of the carrier.

3. In a bell, in combination, a base having a stop, a gong, bell-striking mechanism, a carrier located in the base and having a movement in an axial direction thereof, rigid jaws pivoted to the carrier and protruding from the base and having a swinging movement controlled by contact with the stop, and means for moving the carrier in an axial direction.

4. In a bicycle-bell clamp, in combination, a base adapted to support bell-striking mechanism and having a stop, a post supported by the base, a gong secured to the post, a carrier supported by said post and having a movement in an axial direction of the base, rigid jaws pivoted to the carrier and having a swinging movement controlled by contact with the stop on the base, and means for rotating the post to cause movement of the carrier.

5. In a bicycle-bell, in combination, a base adapted to support bell-striking mechanism and having a stop, a post supported by the base and rotatable therein, a gong secured to one end of the post, a carrier supported by the post within the base by interengaging screw-threads, and rigid jaws pivoted to the carrier and protruding from the base.

6. In a bicycle-bell in combination, a base having a stop and adapted to support bell-striking mechanism, a post supported by the base, a gong secured to one end of the post, a carrier secured against removal to the opposite screw-threaded end of the post and within the base, and rigid jaws pivoted to the carrier and protruding from the base.

7. In a bicycle-bell in combination, a base adapted to support bell-striking mechanism, a post supported by the base, a gong secured to the post, a clamp-plate having a stop, a carrier secured to the post by interengaging screw-threads and within the clamp-plate, and rigid jaws pivoted to the carrier and protruding from the clamp-plate.

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