

No. 608,499.

Patented Aug. 2, 1898.

E. H. WHITE.
BICYCLE BELL.

(Application filed Mar. 7, 1898.)

(No Model.)

Fig. 1.

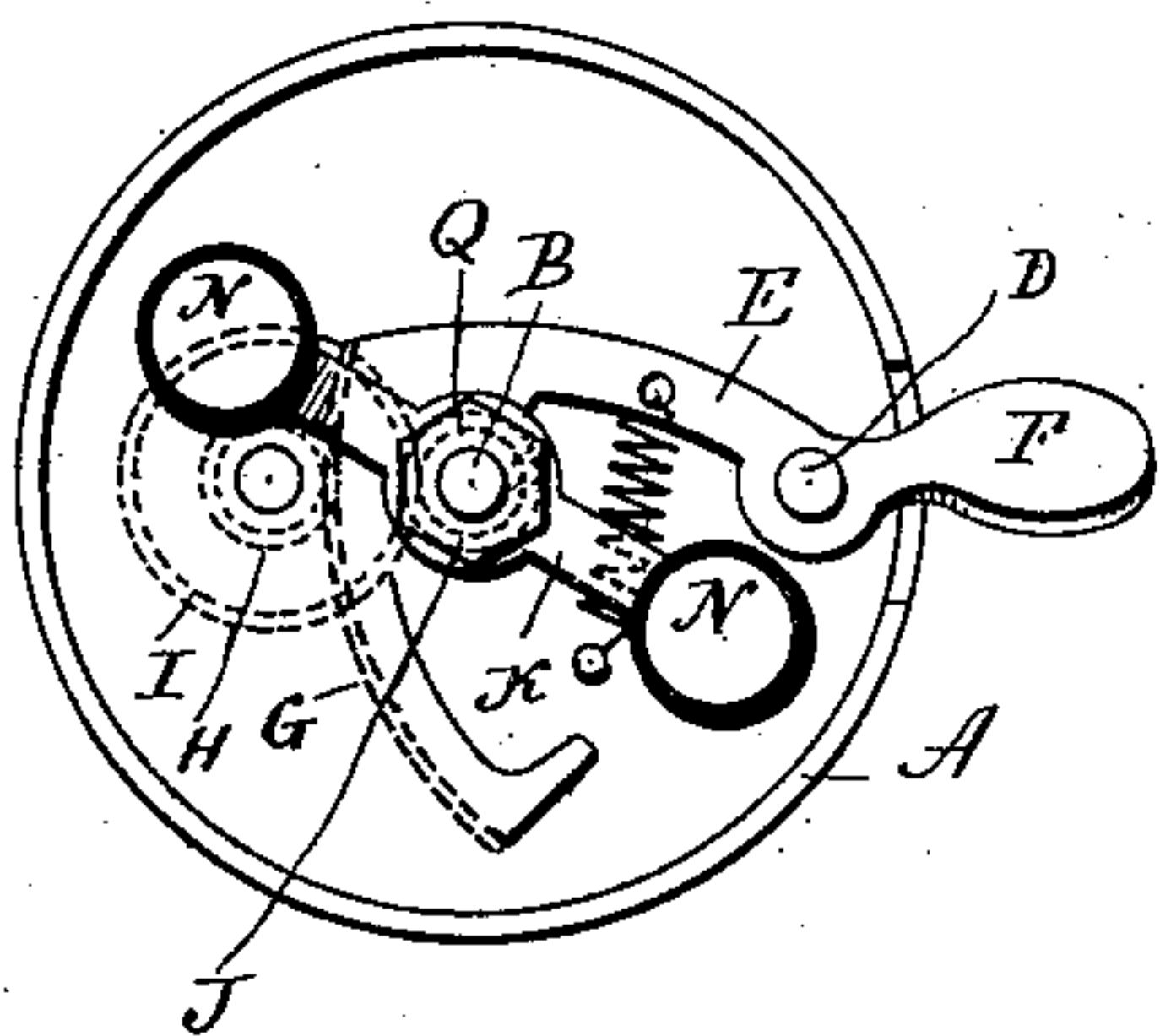


Fig. 2.

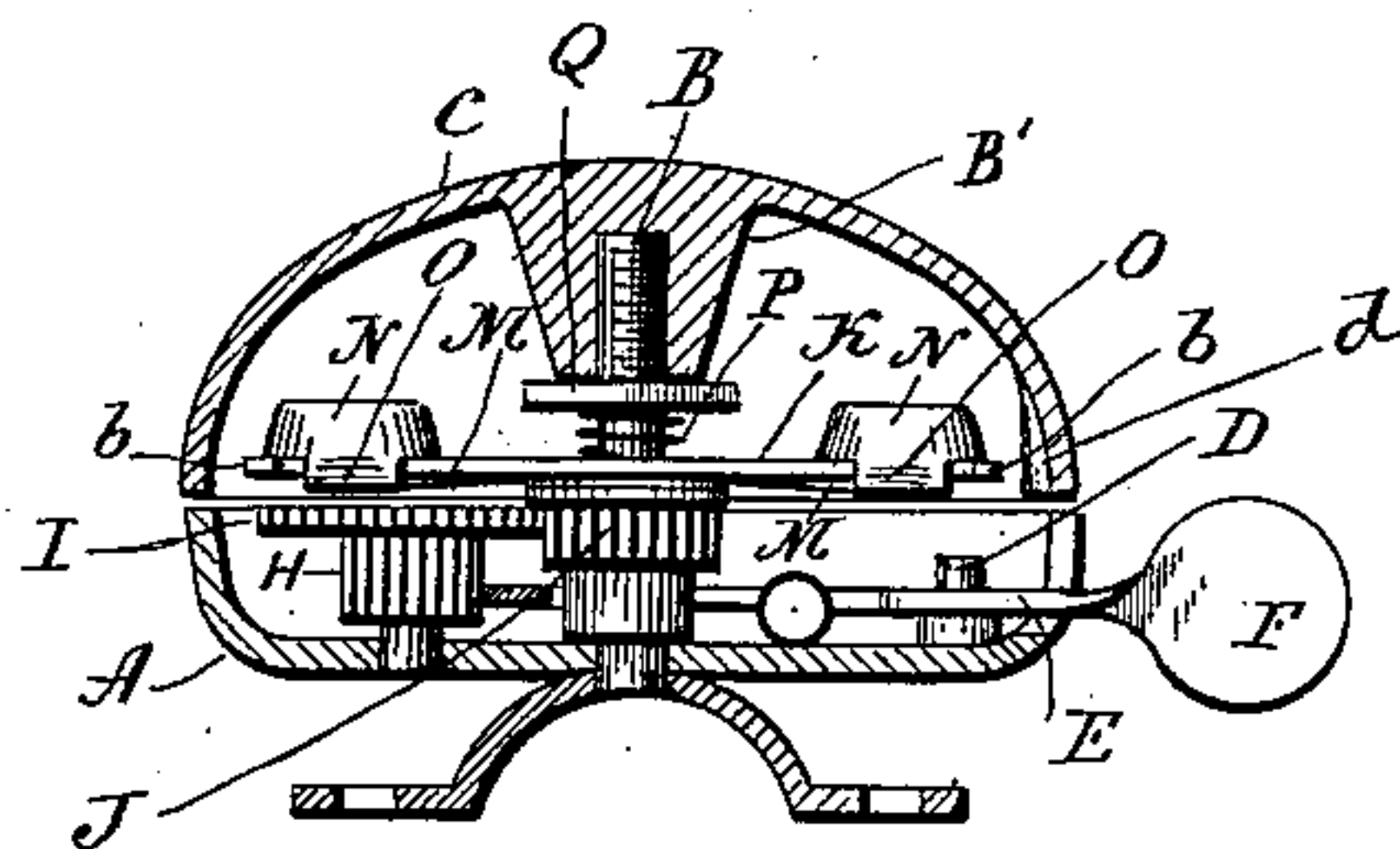


Fig. 3.

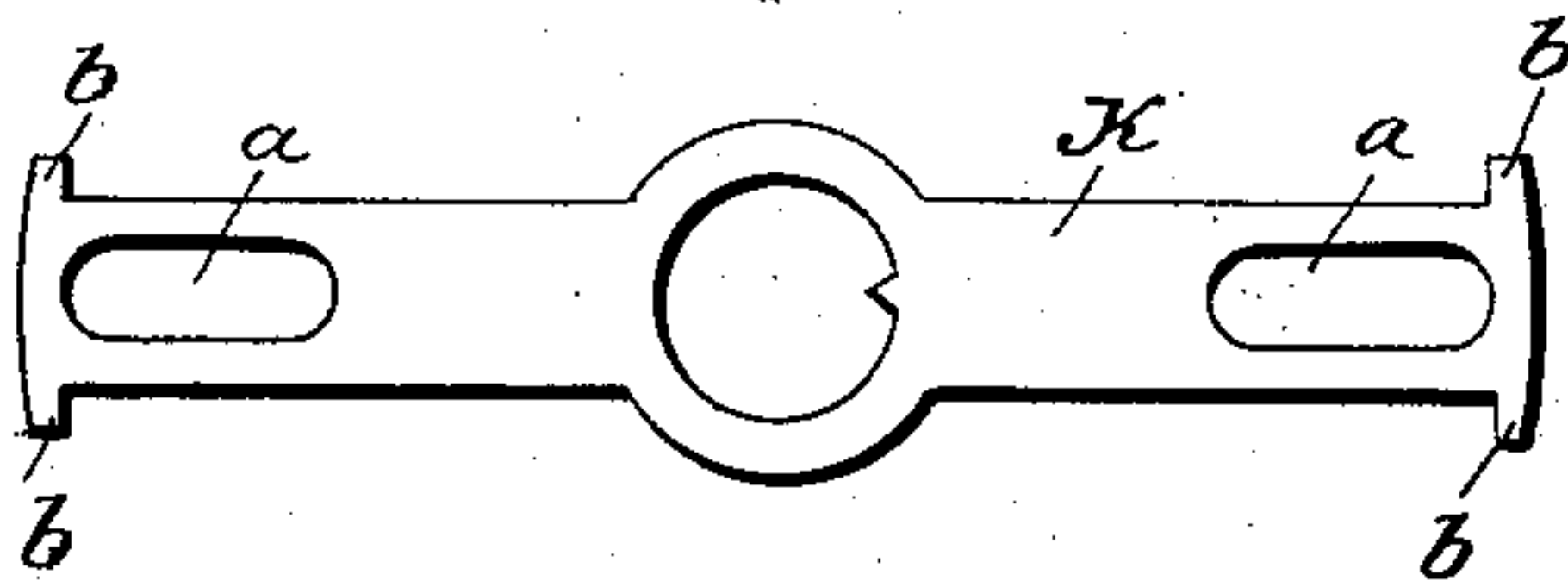


Fig. 4.

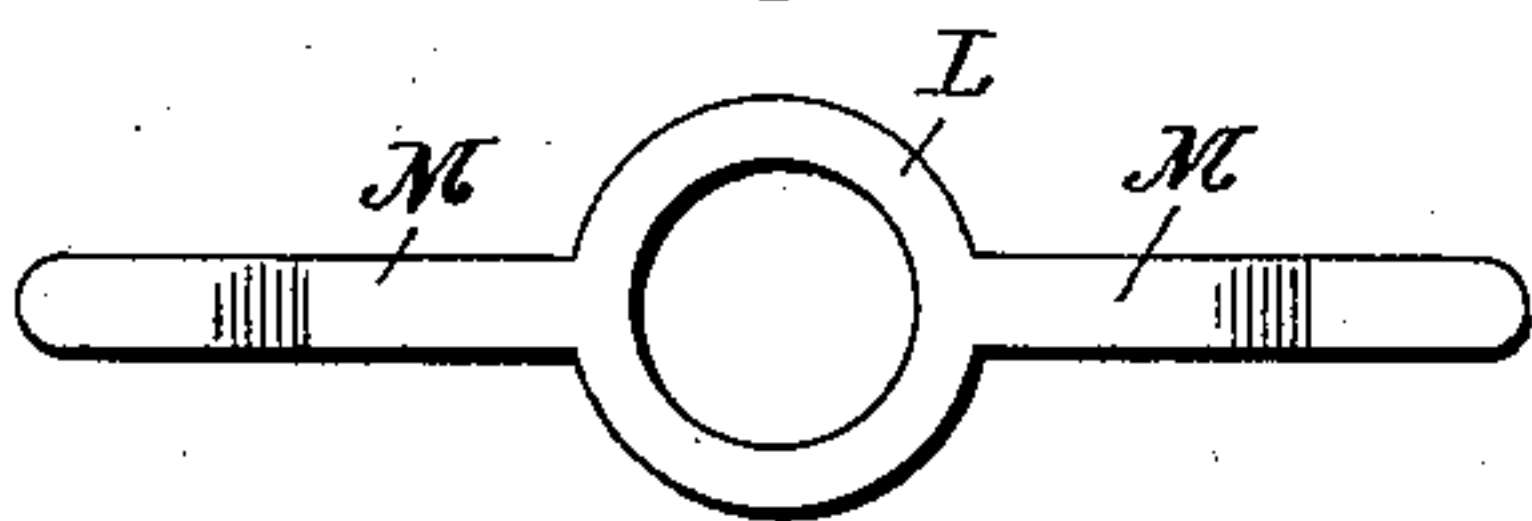


Fig. 5.

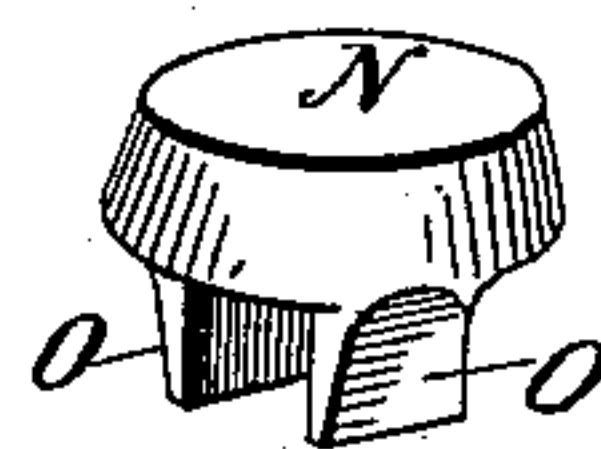


Fig. 6.

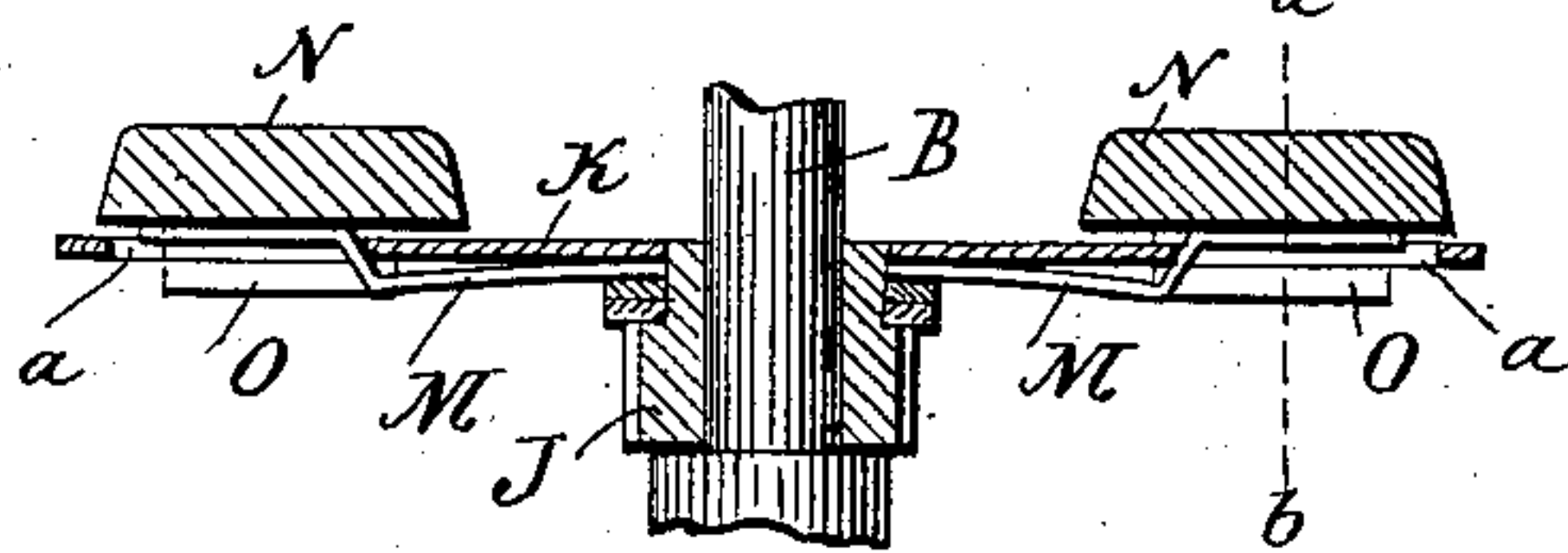
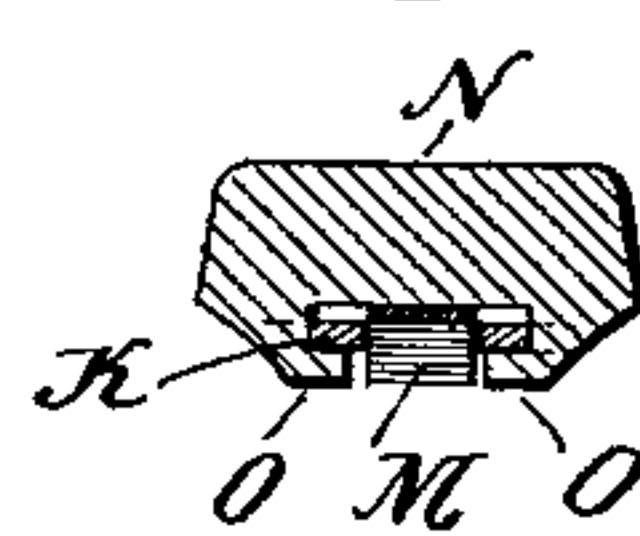


Fig. 7.



Witnesses.
J. H. Seymour.
Ellen Scarborough.

Eugene H. White,
Inventor
By atty. Edgar Seymour

UNITED STATES PATENT OFFICE.

EUGENE H. WHITE, OF NEW HAVEN, CONNECTICUT.

BICYCLE-BELL.

SPECIFICATION forming part of Letters Patent No. 608,499, dated August 2, 1898.

Application filed March 7, 1898. Serial No. 672,980. (No model.)

To all whom it may concern:

Be it known that I, EUGENE H. WHITE, of New Haven, in the county of New Haven and State of Connecticut, have invented a new
5 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
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a top view of a bell constructed in accordance with my invention with the gong removed; Fig. 2, a vertical section of a
15 complete bell; Fig. 3, a top view of the striker-carrier; Fig. 4, a top view of the striker-spring; Fig. 5, a perspective view of one of the strikers detached; Fig. 6, a sectional view of the
20 striker-carrier and adjacent parts enlarged; Fig. 7, a sectional view on the line *a b* of Fig. 6.

This invention relates to an improvement in bicycle-bells, and particularly to that class in which a two-armed striker-carrier is arranged for rotation in a horizontal plane with-
25 in the bell and carrying strikers which are adapted under centrifugal force to be thrown outward, so as to strike a lug formed in the inner wall of the bell, the object of the invention being a simple construction of striker-carrier and strikers whereby a sharp clear
30 stroke is secured and the rattling of the parts avoided; and the invention consists in the construction as hereinafter described, and particularly recited in the claims.

35 The base *A* of the bell is of usual construction and adapted to be clamped to a bicycle-frame in the usual manner. Within the base is a central vertical post *B*, threaded at its upper end to receive a bell *C* in the usual
40 manner. Eccentrically mounted in the base upon a short stud *D* is an operating-lever *E*, the finger *F* of which projects beyond the base and the opposite end of which is formed with a segmental rack *G*, which meshes into
45 a pinion *H*, also mounted in the base and connected with a gear-wheel *I*, which meshes with a small pinion *J*, mounted on the post *B*.

The construction thus far described is the usual one for bells of this class and for which
50 other mechanism may be substituted.

Rigidly connected with the pinion *J* is a horizontal striker-carrier *K*, which is formed

from a strip of metal and provided at opposite ends with slots *a*, and at the ends on each side are short stop-fingers *b*. Beneath the
55 plate and between it and the pinion *J* and so as to be held rigidly in position is a striker-spring, which consists of a ring *L* and two arms *M M*, the ends of which are lifted upward and are of such a length as to project
60 upward through the slots *a* and so as to stand in a plane slightly above the upper surface of the carrier *K*.

The strikers consist of round disks *N*, formed with two depending flanges *O*, which
65 are distant from each other corresponding to the width of the carrier *K* and so that the strikers may be set over the carrier and the flanges *O* turned inward beneath the under
70 face of the carrier. These strikers are therefore adapted to slide upon the face of the carrier, upon which they are frictionally held by the pressure of the spring-arms *M M* against their under faces. Their removal
75 from the carrier is prevented by the fingers *b b*, against which the flanges *O* will strike when the hammer is thrown to its outward position. The outer edges of the striker project
80 beyond the flanges, so that when the flanges strike the fingers the edge of the striker will project beyond the ends of the carrier and into position to strike the lug *d* in the bell.

Preferably a spiral spring *P* will be placed around the post *B* to rest upon the carrier,
85 and, if desired, the hub *B'* of the bell may be depended upon to hold the spring in position; but preferably a threaded washer *Q* will be turned upon the upper end of the post to form a bearing for the upper end of the spring.
90

As the carrier is revolved under the action of the lever and intermediate gearing the strikers will be thrown outward by centrifugal force, so as to strike the lug on the inner
95 face of the bell. As this lug is struck the strikers are forced backward, and so that in operation the strikers slide back and forth upon the upper face of the carrier. The spring-arms bear with sufficient friction against the under faces of the strikers to
100 force the flanges into close contact with the under face of the carrier, so that rattling of the strikers is avoided.

The strikers and carrier thus described are

so simple in construction as to be readily struck up or cast, and therefore the bell produced at a low cost for manufacture.

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

1. The herein-described bicycle-bell, comprising a central post, a horizontally-arranged striker-carrier mounted thereon and means for revolving the same, slots in the opposite ends of said carrier, a spring beneath said carrier, the ends of which extend upward through said slots, and strikers mounted on the carrier for transverse movement over the ends of said springs substantially as described.

2. The herein-described bicycle-bell, com-

prising a central post, a horizontally-arranged striker-carrier mounted thereon and means for revolving the same, slots in the opposite ends of said carrier, and stops at the outer ends of said carrier, a spring beneath said carrier, the ends of which extend upward through said slots, and strikers mounted on the carrier for transverse movement over the ends of said springs substantially as described.

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

EUGENE H. WHITE.

Witnesses:

FREDERIC C. EARLE,
ELLEN SCARBOROUGH.