No. 639,689. Patented Dec. 19, 1899.

F. A. SCRANTON.

BELL STRIKING MECHANISM.

(Application filed Jan. 20, 1897.)

(No Model.)

Fig. 1

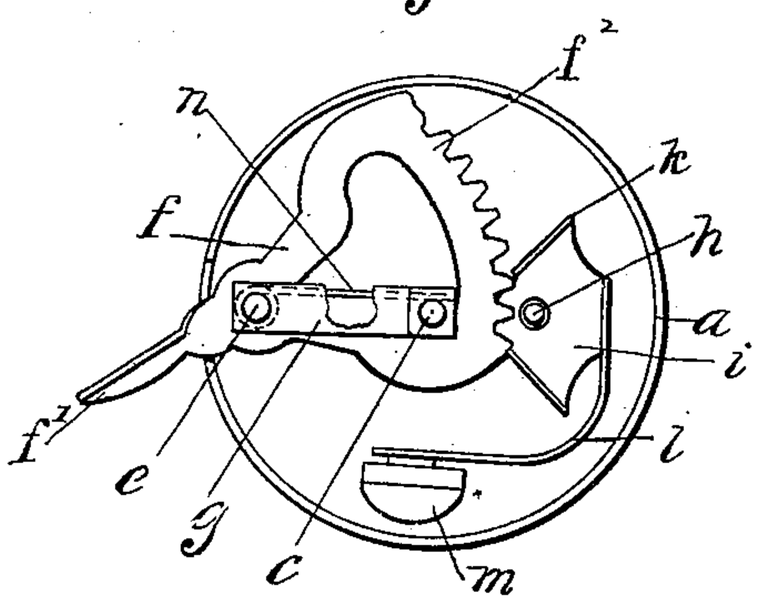


Fig. 2

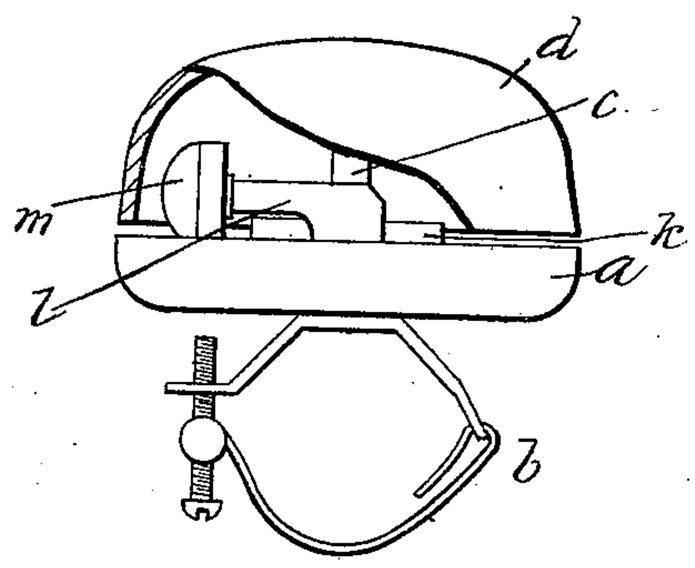


Fig. 3

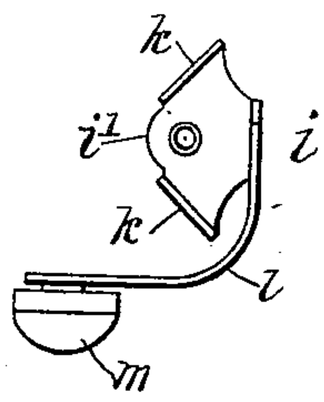


Fig. 4

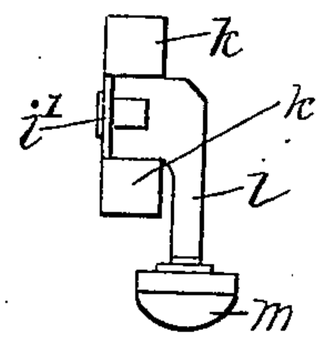
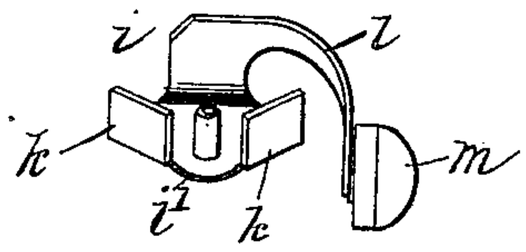


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK A. SCRANTON, OF EAST HAMPTON, CONNECTICUT, ASSIGNOR TO THE BEVIN BROTHERS MANUFACTURING COMPANY, OF SAME PLACE.

BELL-STRIKING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 639,689, dated December 19, 1899.

Application filed January 20, 1897. Serial No. 619,981. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. SCRANTON, a citizen of the United States, and a resident of East Hampton, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Bell-Striking Mechanism, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

The object of my invention is to provide a bell-striking mechanism that shall be extremely simple and cheap of construction, and one more especially applicable for use on bicycles.

To this end my invention consists in the details of the several parts making up the striking mechanism as a whole and in the combination of the parts, as hereinafter described, and more particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a plan view of a base-plate with striking mechanism mounted thereon. Fig. 2 is a view in side elevation of a bell with the gong broken away to show the construction of the mechanism. Fig. 3 is a plan view of the verge. Fig. 4 is an edge view of the same. Fig. 5 is a perspective of the same.

In the accompanying drawings the latter *a* denotes a base-plate having on the under side a clamp *b* of ordinary and convenient form for attachment, as to the handle-bar of a bicycle, the edges of the base-plate being upturned for the purpose of partly inclosing the mechanism. A central post or support *c* extends upward from the base-plate, and on this post is secured, as by means of interengaging threaded parts, a gong *d*.

On a post *e*, secured to the base-plate, is pivoted a lever *f*, having on its outer end a handle or thumb-piece *f'* and on its inner end a segmental rack f^2. The side portions of this lever branch outward from the thumb-piece and lie on opposite sides of the central post *c*, being joined to the ends of the segmental rack. These side parts by contact with the central post determine the extent of the swinging movement of the lever. A brace *g* extends from the central post to the pivot *e* for the purpose of supporting the upper end of the latter and preventing the spring from lifting the lever.

On an arbor *h*, secured to the base, is mounted a verge *i*. On this verge are supported pallets *k*, that are formed by integral projections upturned from the edge of the verge. These pallets are located at equal distance from and upon opposite sides of the arbor *h* and are located at the same angle with reference to a line drawn through the axis of the verge and a point centrally between the inner edges of the pallets. The inner edges of the pallets are located in the same relative position to the axis of the verge and in a position to be engaged by the teeth on the inner end of the lever. A portion is upturned from the outer edge of the verge and forms a spring hammer-lever *l*, on the inner bent end of which is secured the hammer *m*. That end of the lever bearing the hammer is located at substantially right angles to the portion upturned from the edge of the verge, the hammer being located at such distance from the gong as to strike the gong in the movement of the verge and then rebound out of contact.

It will be seen that by means of my invention an extremely simple and cheap construction of verge is provided, the blank being first cut to shape, as by means of dies, and the teeth forming the pallets and the hammer-lever upturned from this blank. A suitable spring *n* is connected to the lever to hold it in one position of its throw.

The verge *i* is projected beyond the forward edge of the pallets *k* underlying the lever *f*, this projection forming a stop *i'* to prevent the verge from accidental removal from the arbor *h*, as when the bell is attached to a bicycle-handle in an inverted position.

I claim as my invention—

1. An improved verge for a bell-striking mechanism consisting of a plate of sheet metal, and pallets upturned from and forming a bounding edge of said plate and located

at an angle to each other, all substantially as described.

2. An improved verge for bell-striking mechanism consisting of a plate of sheet metal, pallets upturned from and forming a bounding edge of said plate and located at an angle to each other, and a hammer-lever upturned from an opposite edge of the plate and forming a boundary of said edge.

FREDERICK A. SCRANTON.

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