(No Model.)

J. KEITH.

BICYCLE BELL.

No. 604,356. Patented May 17, 1898.

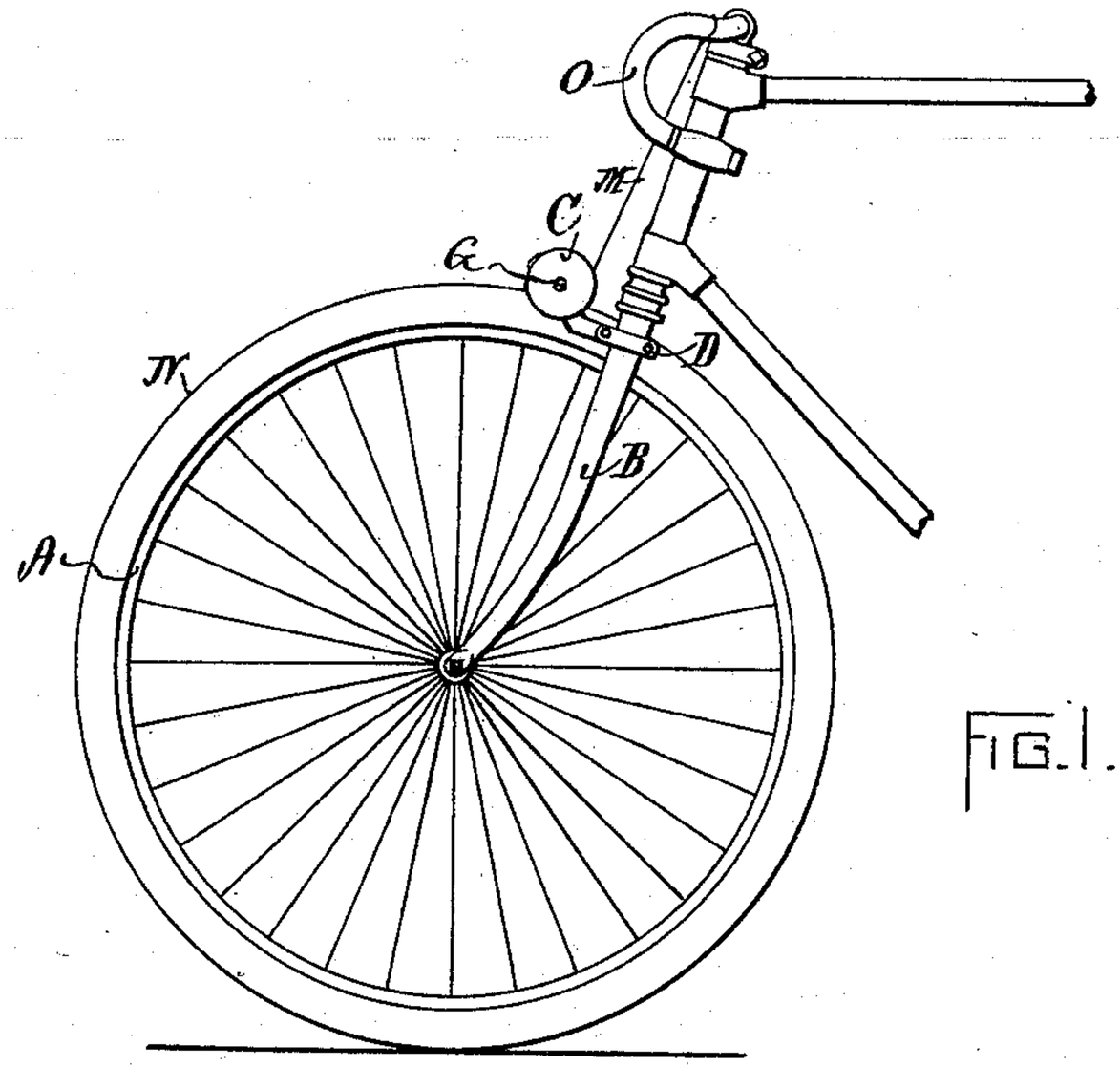

FIG. 1.

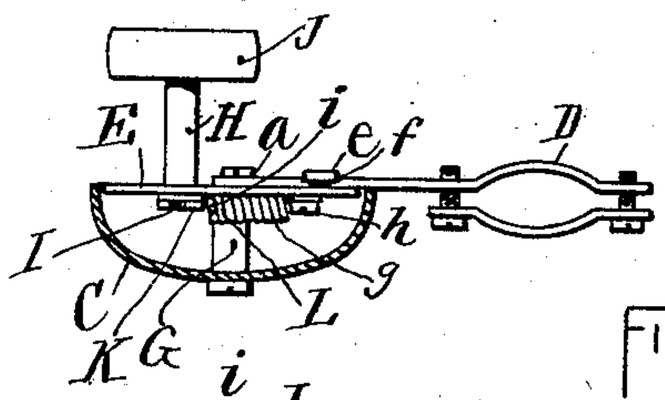

FIG. 2.

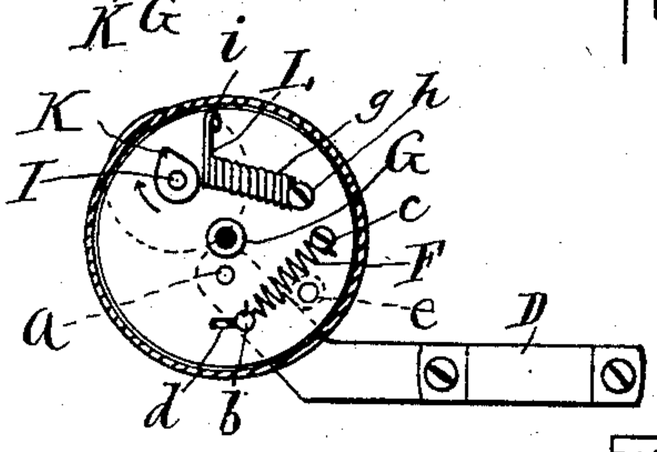

FIG. 3.

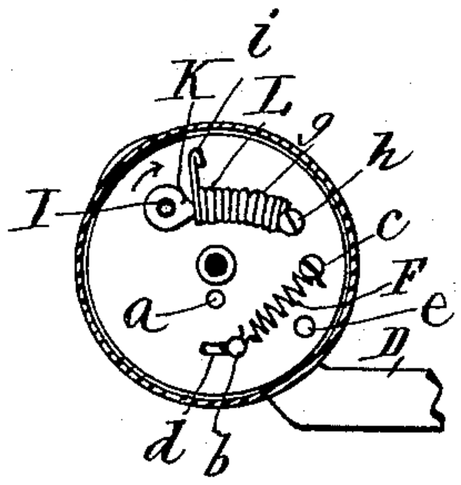

FIG. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JEREMIAH KEITH, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO SIMMONS & PAYE, OF SAME PLACE.

BICYCLE-BELL.

SPECIFICATION forming part of Letters Patent No. 604,356, dated May 17, 1898.

Application filed October 8, 1897. Serial No. 654,577. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH KEITH, a citizen of the United States, residing at Providence, in the State of Rhode Island, have invented a new and useful Improvement in Alarm-Bells, of which the following is a specification.

My invention relates to that class of alarm-bells which is adapted for bicycles and similar vehicles; and it consists in the novel construction of the hammer of the bell, as hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 represents a side elevation of the front wheel and steering-fork of a bicycle, showing the position of the alarm-bell. Fig. 2 represents an enlarged top view of the alarm-bell, the bell being shown in horizontal section. Fig. 3 represents a side view with the bell shown in vertical section and the spring-hammer in its normal position. Fig. 4 represents a detail side view with the bell shown in section, as in Fig. 3, and the spring-hammer engaged by the revolving wiper.

In the drawings, A represents the front wheel of the bicycle, and B the steering-fork, to the latter of which the alarm-bell C is clamped by means of the clamp-bracket D, the circular disk E and the attached bell C being pivoted to the said bracket at the point *a*, and to the side of the bracket D is attached the stud *b*, which passes through the slot *d* in the disk E and to which is attached one end of the spiral spring F, the opposite end of the said spring being attached to the screw-stud *c*, which is secured to the inner side of the disk E, and a screw-stud *e* is secured to the outer side of the disk, which by coming against the edge *f* of the bracket D will serve to form a stop for the rotary movement of the disk E under the action of the spring F.

To the central portion of the disk E is secured the stud G, to which is secured the bell C, and the outer side of the disk E is provided with the tube H, which forms the bearing for the shaft I, at the outer end of which is placed the friction-wheel J and at the inner end the wiper K, which upon the revolution of the shaft I in the direction of the arrow engages with the spring-hammer L, as shown in Fig. 4, to cause the ringing of the bell C. The hammer L is formed of the spiral spring *g*, which is secured to the side of the disk E by means of the screw *h*, and the wire of the spring *g* at the opposite end of its coil is turned outward and bent at its end to form the striking-head *i* of the hammer.

The string M for turning the bell C and disk E upon the pivot *a* so that the friction-wheel J will come in contact with the tire N of the wheel A is attached at one end to the screw-stud *e* and at the opposite end to the handle-bar O, and by means of the said string the ringing of the bell may be readily controlled by the rider. The bell-ringing hammer formed of a spiral spring arranged for operation as described constitutes a very desirable improvement in alarm-bells.

I claim as my invention—

The combination of the pivoted disk, and the bell, with the spiral spring secured at one end to the pivoted disk, and having its opposite end arranged to form the bell-hammer, the friction-wheel, and the revolving wiper adapted to engage with the free end of the spiral spring of the hammer to cause the ringing of the bell, and means for causing the engagement and rotation of the friction-wheel.

JEREMIAH KEITH.

Witnesses:

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