

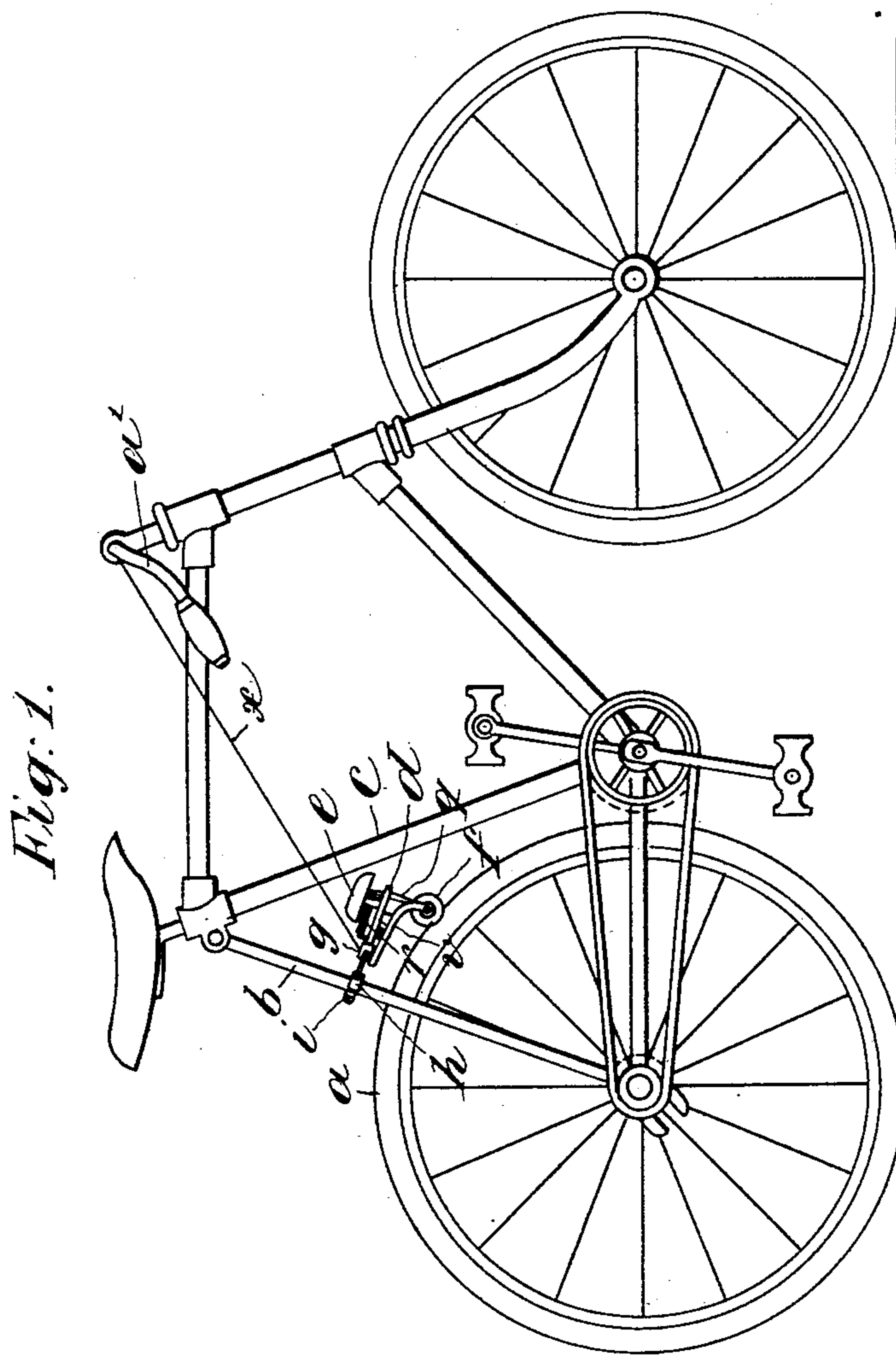
(No Model.)

2 Sheets—Sheet 1.

A. A. WOLCOTT.
BICYCLE BELL.

No. 587,665.

Patented Aug. 3, 1897.



WITNESSES:

J. H. Wimmer
W. J. Morgan

INVENTOR:

Amos A. Wolcott

By

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Attorney.

(No Model.)

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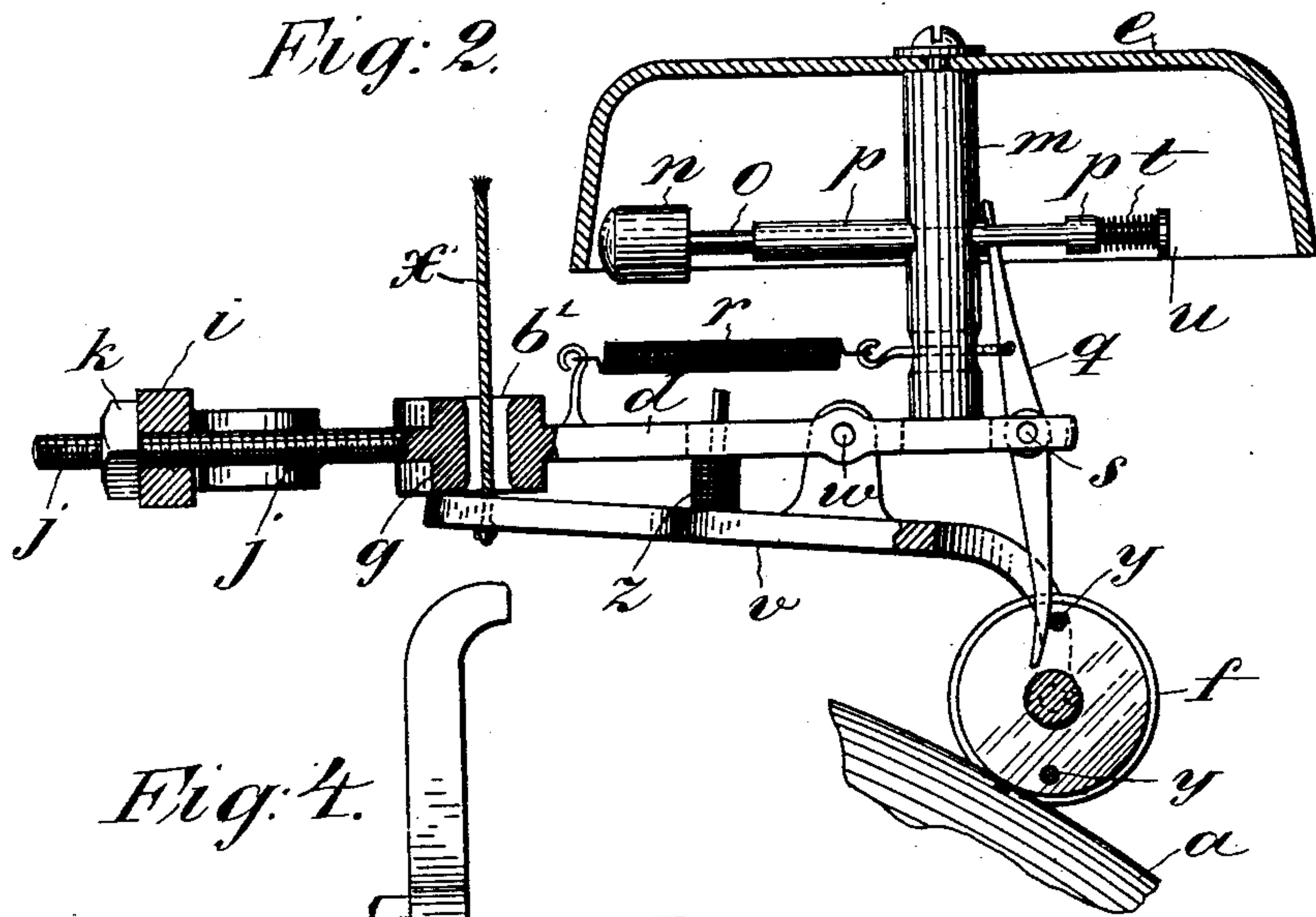


Fig. 4.

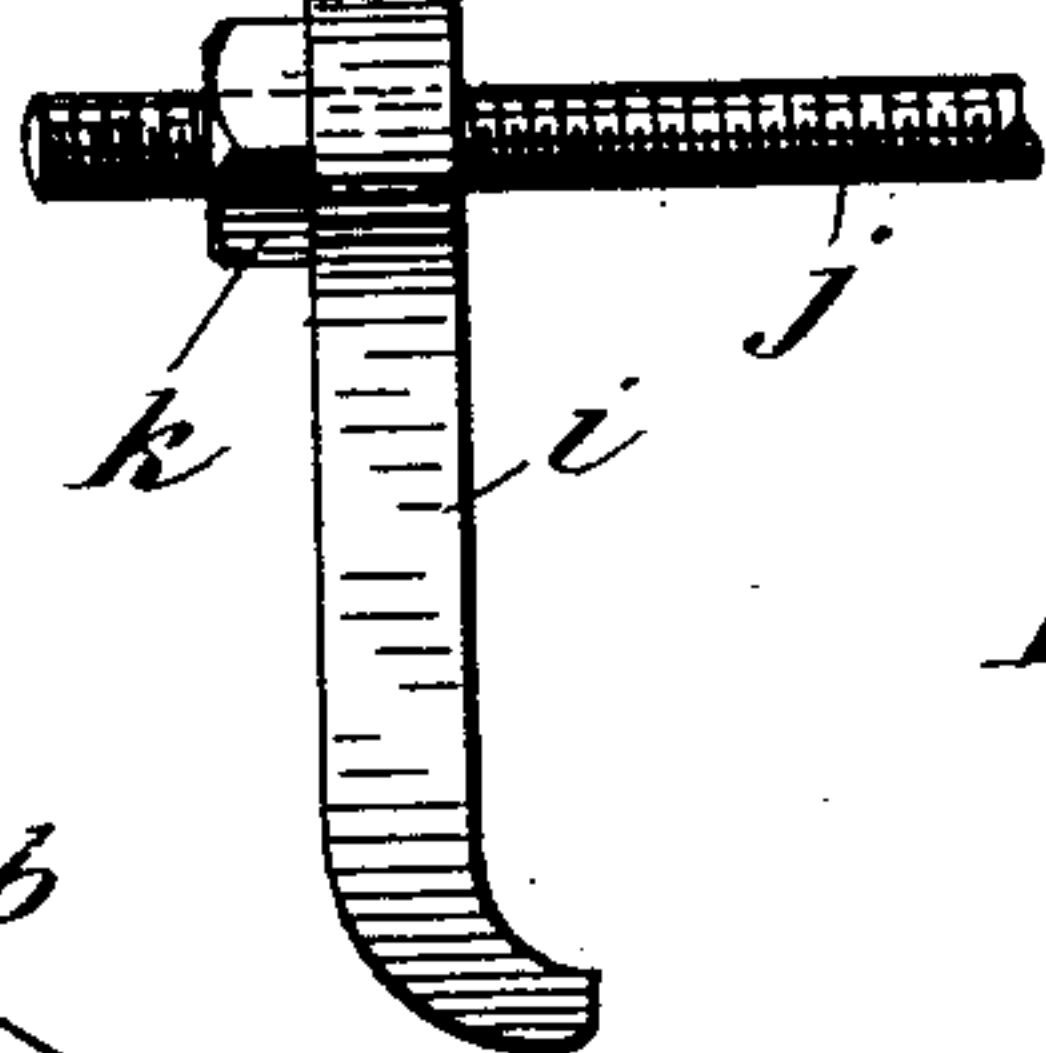
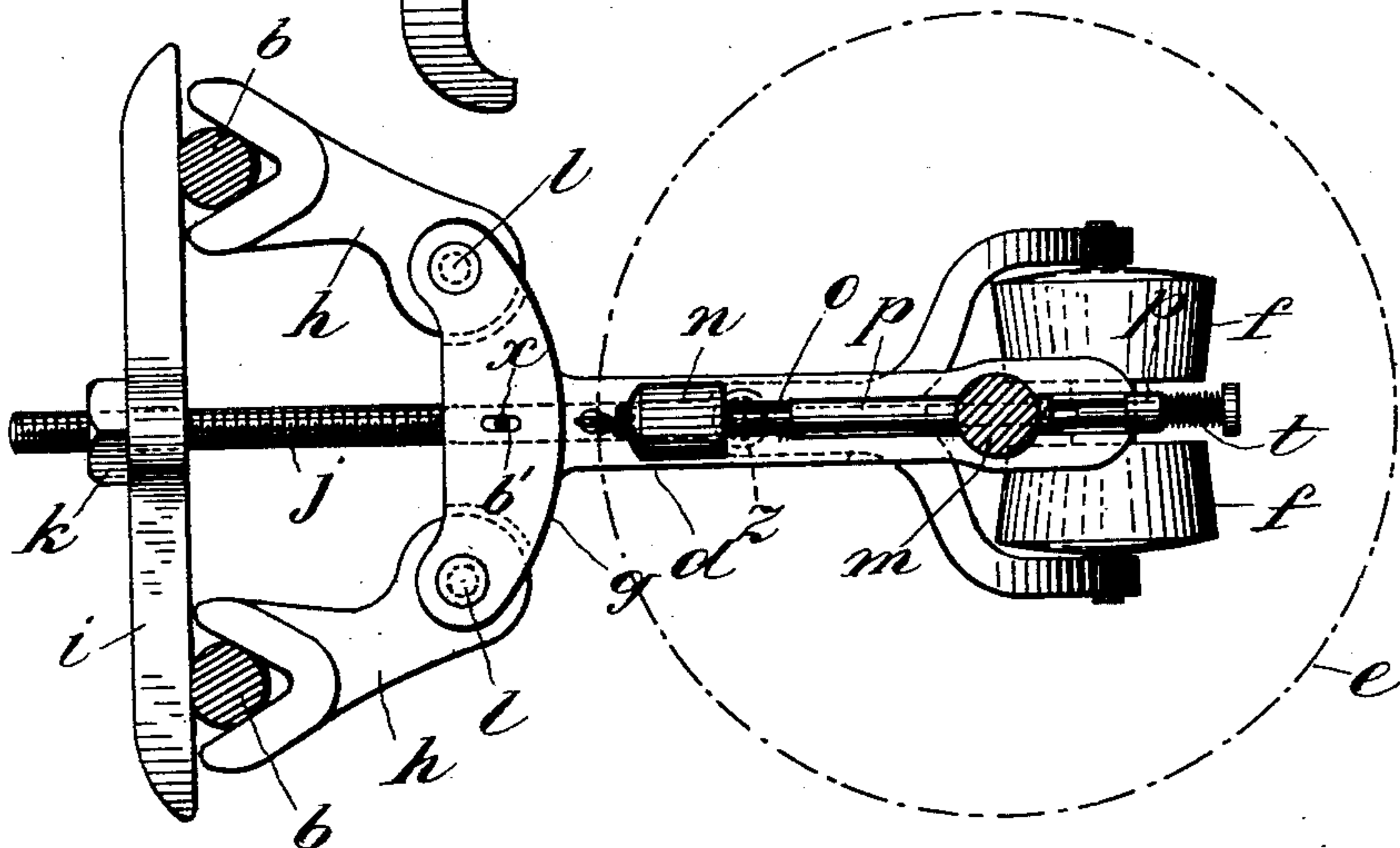


Fig. 3.



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UNITED STATES PATENT OFFICE.

AMOS A. WOLCOTT, OF NEW YORK, N. Y., ASSIGNOR TO EDWARD SIMMONS,
OF KEYPORT, NEW JERSEY.

BICYCLE-BELL.

SPECIFICATION forming part of Letters Patent No. 587,665, dated August 3, 1897.

Application filed November 4, 1896. Serial No. 611,072. (No model.)

To all whom it may concern:

Be it known that I, AMOS A. WOLCOTT, a citizen of the United States, and a resident of New York city, in the county and State of New York, have invented certain new and useful Improvements in Bell Attachments for Bicycles, of which the following is a specification.

The object of my invention is to provide an improved construction of apparatus for the application of a bell to be actuated by a roller caused to be operated by contact with one of the wheels of the bicycle, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved bell attachment applied to a bicycle. Fig. 2 is a sectional elevation of the apparatus on a larger scale. Fig. 3 is a plan view of the apparatus with the bell detached, but indicated by a dotted line and with the hind fork-bars of the bicycle in section, the scale being same as in Fig. 2. Fig. 4 is a detail of the attaching-clamp slightly modified.

My invention is designed with especial reference to the application of the bell over the hind wheel *a* in the angle between the upper hind fork *b* and rear standard *c* of the bicycle-frame, where it will be better protected and less unsightly than in any other locality where the bell-operating roller may be geared with a bicycle-wheel. To this end I provide a supporting-bar *d* for the bell *e* and the actuating-roller *f* and a clamp for connecting said bar to the fork *b*, said clamp consisting of the T-head *g* of one end of the supporting-bar, the jaws *h* for engaging the members of the fork *b* and being pivoted in the ends of the head respectively, the clamping-yoke *i*, clamp-screw *j*, and nut *k*, said clamp-screw being connected to the T-head in suitable relation for clamping the jaws onto the fork and holding the supporting-bar rigidly in position. The jaws are pivoted at *l* to the T-head to adapt the clamp for application to forks of different widths and to be shifted up and down along a taper fork. The yoke may be straight on its clamping-face, as in Fig. 3, or it may have hook ends, as in Fig. 4, the hooks being intended as a protection against the spreading of the fork under the stress of

the clamp, as may be the case when the distance between the members of the fork is greater than the distance between the pivots *l*. Near the other extremity of the supporting-bar the bell *e* is mounted on a post *m*, set upright on the bar. The bell-hammer *n* is carried on the end of a staff *o*, fixed to reciprocate in a slideway *p*, attached to the post. A lever *q*, pivoted at *s* in the supporting-bar *d*, has its upper end engaged with the staff for retracting the hammer, and a spring *r* thrusts the lever forward to strike the bell. A spring *t*, coiled on the staff behind its head *u* and the end of the guideway, causes the recoil of the hammer from the bell. Under the bar *d* the roller *f* is carried in the forked extremity of a lever *v*, suspended from the pivot *w*, carried on the bar, said lever being supported in suitable relation to the hind wheel *a* of the bicycle, so that when its other end is pulled upward by a cord *x* the roller will be thrust down in contact with the wheel, so as to be rotated by it, and the roller carries one or more tappets *y*, adapted to take effect on the lower end of lever *q* to retract the bell-hammer. The cord is rigged through a hole *b'* in the head *g*.

A spring *z* is suitably arranged between bar *d* and lever *v* to thrust the roller out of contact with the wheel *a* when the pull on the cord *x* ceases. The cord is extended upward to and along the handle-bar *a'* in any suitable way to be manipulated by the rider when the bell is to be sounded. It will be seen that the bell will ring continuously as long as the contact of the roller with the wheel *a* is maintained.

I claim as my invention—

1. In a bicycle-bell attachment, the combination with the hind upright fork of the bicycle-frame, of the bell-supporting bar, and the clamp for attaching said bar, said clamp consisting of the T-head of the bar, jaws pivoted in the ends of the T-head, and the clamping-yoke screw, and nut substantially as described.

2. In a bicycle-bell attachment, the combination with the hind upright fork of the bicycle-frame, of the bell-supporting bar clamped to said fork, the bell supported on the bar by the post, reciprocating hammer carried in a

slideway on the post, bell-hammer-retracting lever pivoted on the supporting-bar and connected at the upper end with the hammer-staff with its lower end subject to the action
5 of the roller, lever-hammer-actuating spring connected with said lever, recoil-spring on the hammer-staff, hammer-lever-actuating roller, and the roller-carrying lever, said lever suspended pivotally under the supporting-bar,

and provided with the actuating cord and 10 spring all substantially as described.

Signed at New York city, in the county and State of New York, this 29th day of October, A. D. 1896.

AMOS A. WOLCOTT.

Witnesses:

W. J. MORGAN,
A. P. THAYER.