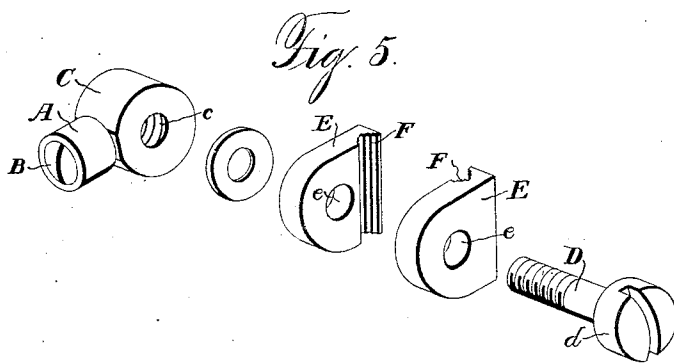
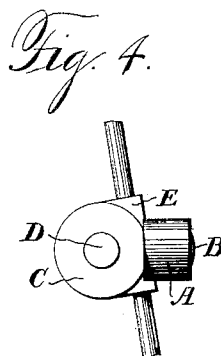
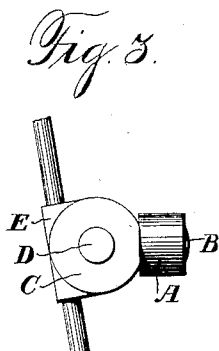
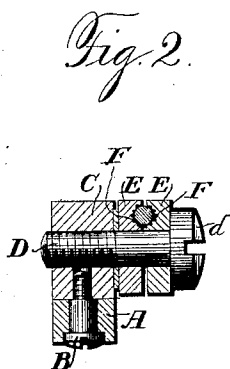
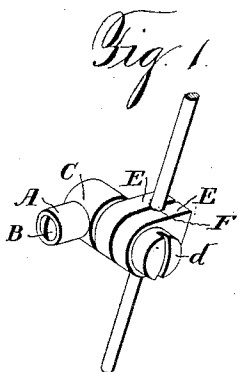


(No Model.)

E. HART.
CYCLOMETER TAPPET OR ACTUATING DEVICE.

No. 578,148.

Patented Mar. 2, 1897.



Witnesses:
Frank P. Prindle.
Henry C. Hazard

Inventor.
Edwin Hart
by Prindle and Russell
his attorneys

UNITED STATES PATENT OFFICE.

EDWIN HART, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE WATERBURY WATCH COMPANY, OF SAME PLACE.

CYCLOMETER TAPPET OR ACTUATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 578,148, dated March 2, 1897.

Application filed October 5, 1896. Serial No. 607,932. (No model.)

To all whom it may concern:

Be it known that I, EDWIN HART, of Waterbury, in the county of New Haven, and in the State of Connecticut, have invented certain new and useful Improvements in Cyclometer Tappets or Actuating Devices; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my cyclometer-actuating device or tappet applied to a wheel. Fig. 2 is a longitudinal section of the same. Figs. 3 and 4 are end views showing, respectively, the two modes of applying the device to a spoke; and Fig. 5 is a detail perspective view of the device with the parts thereof separated.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to provide a tappet or striker for cyclometers that can be easily applied to the wheel and capable of several adjustments to adapt it for perfect cooperation with the star-wheel of the cyclometer; and to this end the said invention consists in the cyclometer tappet or striker constructed substantially as and for the purpose hereinafter specified.

In the carrying of my invention into practice I employ a roller A for striking the teeth of the cyclometer star-wheel, which is journaled on a screw or stud B, that projects radially from a circular block or disk C. The latter is provided with an axial threaded opening *c* for the reception of a headed screw D. Between the head *d* of the screw and the adjacent side of the block or nut C are placed two substantially semicircular plates E and E, having openings *e* and *e*, through which the screw freely passes. In the adjacent faces of the plates E and E are coinciding spoke-engaging grooves F and F, that are each V-shaped in cross-section and have their faces ribbed or roughened to insure a good grip or bite on the spoke.

In applying my device to a spoke it is simply necessary to loosen the screw sufficiently to enable the two plates E and E to be separated enough to pass over the spoke. With

the grooves F and F in position to engage the spoke the screw is then tightened to cause said plates to clamp or grip the same. As the roller A is attached to the block or nut C the latter can be turned to place the axis of the roller in exact parallelism with the axis of the star-wheel, so that it will stand at right angles to and thus fairly engage the teeth of the latter, notwithstanding the angle at which the spoke inclines. A further adjustment of the roller is possible as to the amount of its projection from the side of the wheel by arranging the clamp-plates E and E, as best shown in Figs. 1 and 3, so that the spoke-engaging grooves thereof are on the side of the screw diametrically opposite the roller, in which case the extreme degree of projection of the roller will be secured, or, as shown in Fig. 4, by arranging said plates so that the grooves are on the same side of the screw as the roller, whereby a much less degree of projection of the roller is obtained.

It will be apparent that in applying the device to or removing it from the spoke it is most convenient, as it is not necessary to remove the screw, but the same is only loosened enough to permit the clamp-plates to be spread apart sufficiently to pass over the spoke.

My device is very simple, employing, as it does, but the one screw and making the block C serve both as the clamping-nut and the pivotally-adjustable holder for the roller or tappet.

Having thus described my invention, what I claim is—

1. In a cyclometer tappet or striker, the combination of the spoke-clamp, and a tappet that is adjustably connected to said clamp, whereby its position relative to the clamp may be changed substantially as and for the purpose shown.

2. In a cyclometer-tappet, the combination of the spoke-clamp, the tappet-support rotatably adjustable relative to said clamp and the tappet eccentrically mounted on said support, substantially as and for the purpose set forth.

3. In a cyclometer tappet or striker, the combination of the tappet-support, and an adjustable spoke-clamp, adapted to have its

position changed relative to the tappet, substantially as and for the purpose set forth.

4. In a cyclometer tappet or striker, the combination of the screw, the two clamp-plates, the nut on the screw, and the tappet on the nut, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of October, A. D. 1896.

EDWIN HART.

Witnesses:

CHARLES S. CHAPMAN,
S. L. ARTHUR.