

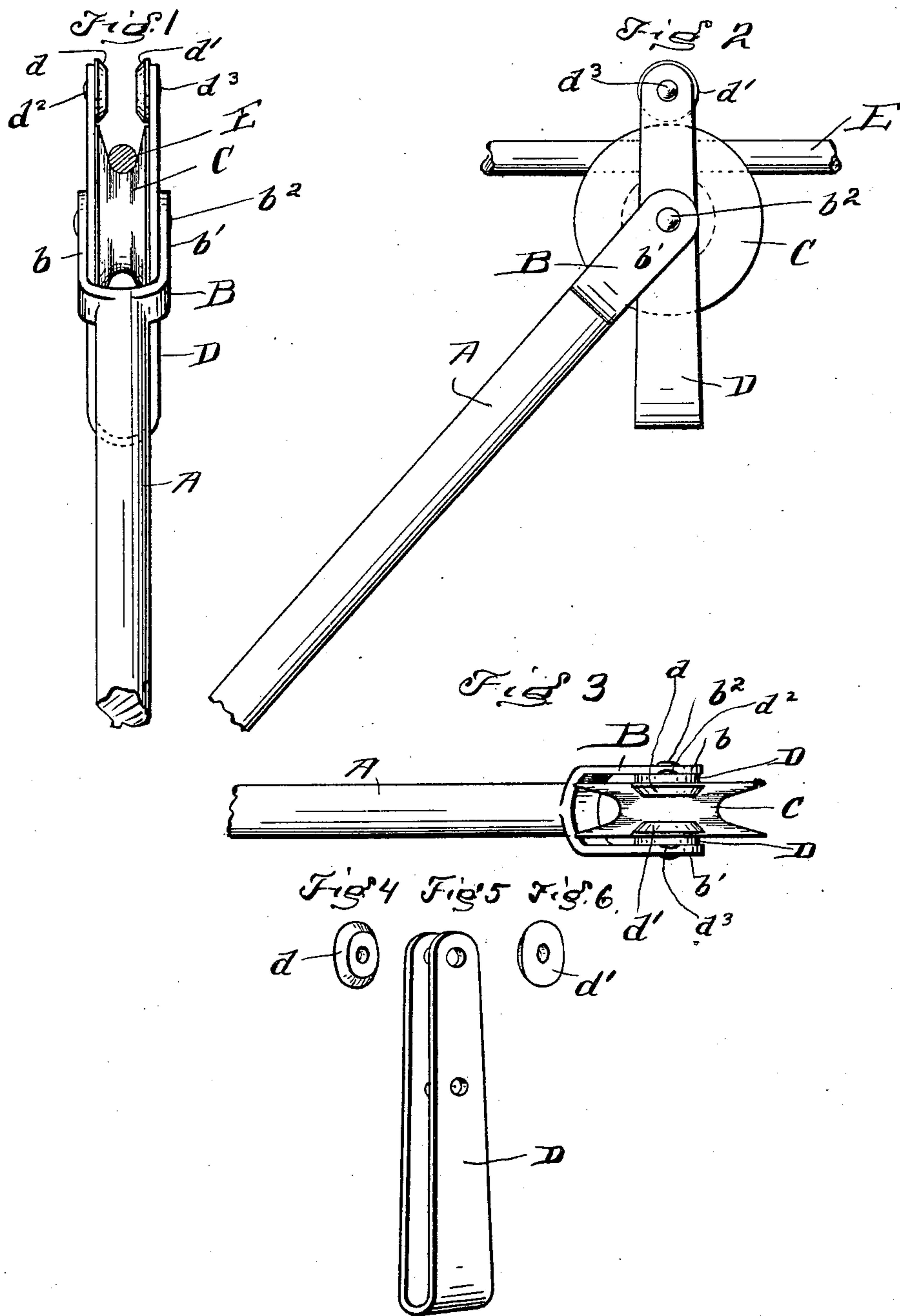
No. 680,286.

Patented Aug. 13, 1901.

C. E. STANLEY,
TROLLEY GUARD.

(Application filed Mar. 20, 1901.)

(No Model.)



Witnesses:
Charles E. Stanley
Chas. M. Miller

Inventor.
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UNITED STATES PATENT OFFICE.

CHARLES E. STANLEY, OF CANTON, OHIO.

TROLLEY-GUARD.

SPECIFICATION forming part of Letters Patent No. 680,286, dated August 13, 1901.

Application filed March 20, 1901. Serial No. 52,027. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. STANLEY, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented new and useful Improvements in Trolley-Guards, of which the following is a specification.

My invention relates to improvements in trolley-guards; and it consists of a yoke journaled to the fork of a trolley-arm, the upper free ends of which yoke have journaled there-to beveled wheels adapted to engage the trolley-wire and prevent its passing off from the trolley-wheel.

In the accompanying drawings similar letters of reference refer to similar parts.

Figure 1 is a front view. Fig. 2 is a side view. Fig. 3 is a top view. Fig. 4 is a perspective view of the beveled guard-wheels. Fig. 5 is a perspective view of the yoke. Fig. 6 is a rear view of one of the guard-wheels.

The trolley-arm A is of the usual well-known form, terminating in the fork B, provided with two limbs or members $b\ b'$, having journaled therein the trolley-wheel C. The yoke D consists of a substantially U-shaped metallic frame journaled in the trolley-fork upon the shaft b^2 , upon which the trolley-wheel C is journaled. The free ends of the yoke extend up above the line of the top of the trolley-wheel and have journaled in their ends the beveled-edge guard-wheels d and d' , which revolve upon the pins or shafts d^2 and d^3 .

In operation the trolley-wire E passes down between the guard-wheels $d\ d'$ until it rests upon the trolley-wheel C. If for any reason the vibration of the wire or other causes the trolley-wire has a tendency to rise and disengage itself from the trolley-wheel, one of the guard-wheels $d\ d'$ engages the same and immediately begins to revolve, and the tendency is to push the wire down into position.

It will be observed that this device, which

consists, primarily, of the yoke D, carrying the beveled guard-wheels $d\ d'$, can be attached without change of construction or alteration to the present trolley arms and forks.

Various changes in form and detail of construction may be made without departing from the spirit of my invention, which consists, primarily, in providing a counterbalanced yoke adapted to be journaled in the fork of a trolley-arm and to have journaled in the free ends of the yoke beveled-edge gear-wheels.

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

1. In a trolley-guard, the combination with the trolley-arm provided with a fork, a shaft mounted in the arms of the fork, and a trolley-wheel journaled upon said shaft, of a guard consisting of an elongated, counterbalanced U-shaped yoke journaled upon the said trolley-wheel shaft between the arms of the fork, and beveled-edge guide-wheels journaled upon horizontal shafts mounted in the free ends of the arms of the yoke and spaced apart and arranged vertically above the sides of the trolley-wheel with their beveled edges extending inwardly and above the flaring sides of said wheel, substantially as described.

2. A trolley-guard consisting of a metallic yoke adapted to be journaled in the forks of a trolley-arm, shafts mounted horizontally in the free ends of the yoke, and spaced, vertically-arranged guide-wheels journaled upon said shafts and having inwardly-extending beveled edges, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES E. STANLEY.

Witnesses:

CHAS. R. MILLER,
CHAS. M. BALL.