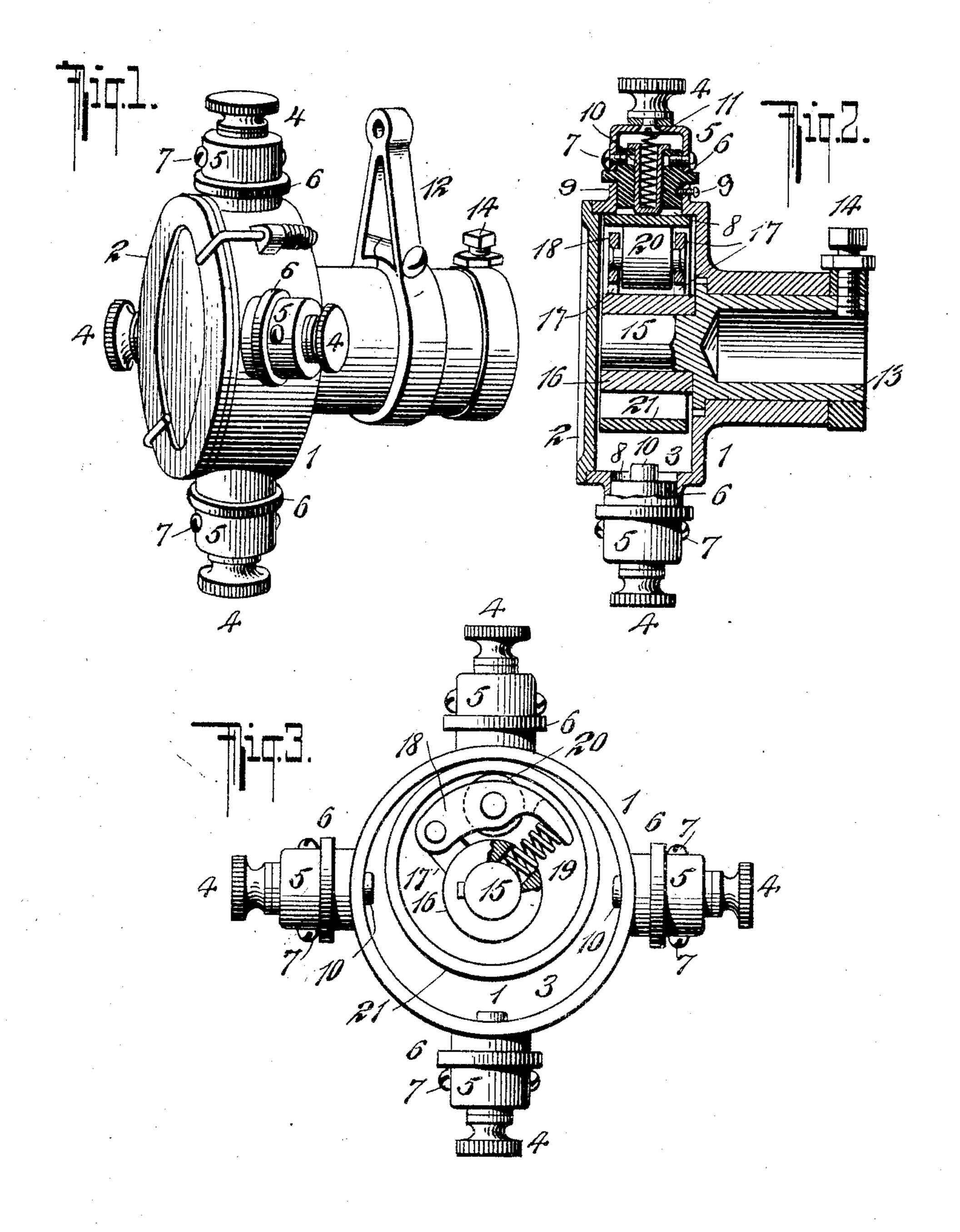
W. W. ROBINSON. TIMER.

APPLICATION FILED AUG. 24, 1907.



WITNESSES Suits-C. M. Hune.

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WALTER W. ROBINSON, OF WEST NEW YORK, NEW JERSEY, ASSIGNOR TO WITHERBEE IGNITER COMPANY, A CCRPORATION OF NEW JERSEY.

TIMER.

No. 888,195.

Specification of Letters Patent.

Patented May 19, 1908.

Application filed August 24, 1907. Serial No. 389,973.

To all whom it may concern:

Be it known that I, Walter W. Robinson, a citizen of the United States, residing at West New York, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Timers, of which the following is a specification, reference being had therein to the accompanying drawing.

of automobiles, and the like, and has for its object the provision of a simple and effective interrupter wherein the defects of the usual wipe-contact circuit interrupter are obvi-

ated.

To attain the desired end, my invention consists in the combination with a casing provided with one or more contact pieces, of a loose ring of less diameter than the chamber within the casing, and a roller carried by a rotatable member adapted and arranged to move the ring in an eccentric orbit, all of which will be hereinafter first fully described, and pointed out in the claims.

In the drawing, Figure 1 is a perspective view of a timer embodying my invention. Fig. 2 is a longitudinal, axial sectional view thereof. Fig. 3 is a face view with the cover

30 removed.

Similar numerals of reference, wherever they occur, indicate corresponding parts in all the figures.

1 is a casing made of any preferred mate-

35 rial. 2 is a cover therefor.

3 is the chamber within the casing.

4 are binding posts, the construction of timer illustrated being provided with four, but it is obvious that my invention may be used with one or more circuits, as required. Each post 4 is secured to a cap 5 which in turn is held to a perforated insulating piece 6 by screws 7, the piece 6 entering a perforation 8 in the circumferential wall of the casing 1, where it is held, as by a screw, 9.

tending through the perforation in the insulator 6, a flange at the outer extremity limiting the inward movement of the piece 10.

It is a conducting spring which forces the piece 10 inward, this construction being particularly shown in Fig. 2 of the drawing.

12 is an arm for holding the casing in a lixed position.

13 is a sleeve projecting into the casing 1, 55 adapted to be secured to a rotatable shaft by means of a set-screw, 14; the inner end of the sleeve bears a projection 15 on which is fixed a ring 16 carrying ears 17 whereon is pivoted a yoke 18, the free end thereof is 60 forced outward by a spring 19.

20 is a roller mounted in the voke 18.

21 is a metallic ring, preferably made of brass, of less diameter than the chamber 3, said ring being held between the wall of the 65 chamber and the roller 20.

In operation, as the sleeve 13 revolves, the ring 21 moves eccentrically, coming in contact with each of the pieces 10 in succession, and as the ring is of less diameter than the 70 wall of the chamber wherein it moves, and also slips slightly, practically a new contact surface is presented to the pieces 10 with each revolution of the sleeve, preventing pitting or wear of the ring, increasing the efficiency of the timer, and greatly augmenting its durability and life.

Having now fully described my invention, what I claim as new therein, and desire to

secure by Letters Patent, is:

1. In a timer of the character herein specified, the combination with a hollow casing, contacts carried thereby, and a rotatable member located therein, of a spring-actuated roller carried by said member, and a loose 85 ring having smooth inner and outer faces located between the roller and the wall of the hollow casing.

2. A timer in which is comprised a hollow casing; a plurality of insulated binding- 90 posts mounted on the periphery of the casing; movable contact-pieces extending into the hollow casing from the binding-posts; a rotatable member extending into the hollow casing; a yoke carried by the rotatable mem- 95 ber; a roller journaled in said yoke, and a loose ring having smooth inner and outer faces, located between the roller and the wall of the hollow casing.

In testimony whereof I hereto affix my 100 signature in presence of two witnesses.

WALTER W. ROBINSON.

Witnesses.

A. B. ELLIOTT.

F. E. ROTH.