No. 665,816.

Patented Jan. 8, 1901.

S. WALKER.

REVOLVING BATTERY.

(Application filed Aug. 1, 1900.)

(No Model.)

Fig. 1.

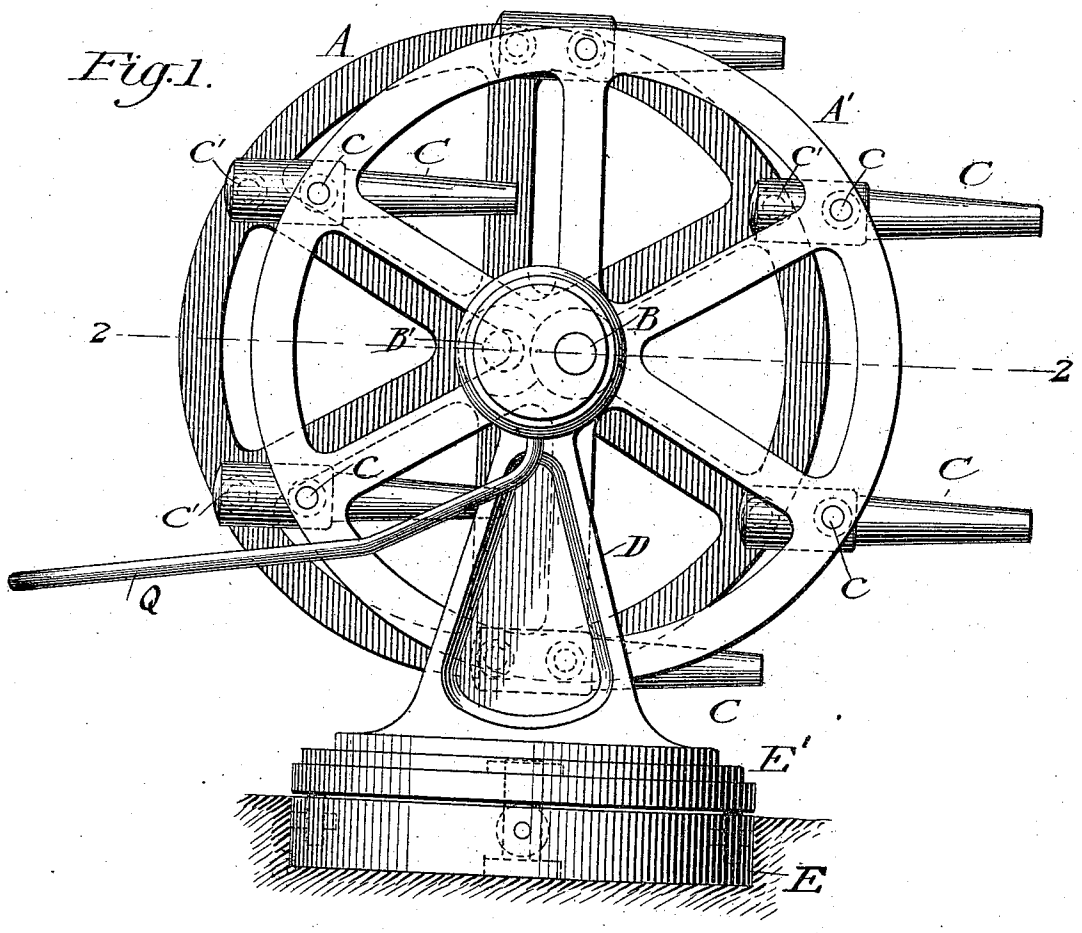
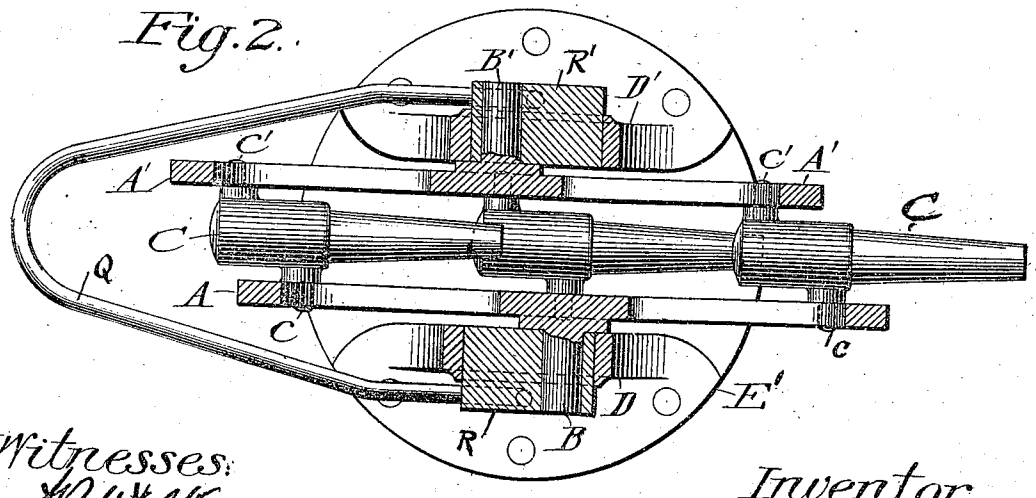


Fig. 2.



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SAMUEL WALKER, OF NATIONAL HOME, WISCONSIN.

REVOLVING BATTERY.

SPECIFICATION forming part of Letters Patent No. 665,816, dated January 8, 1901.

Application filed August 1, 1900. Serial No. 25,482. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL WALKER, a citizen of the United States, residing at National Home, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Revolving Battery, of which the following is a specification.

My invention relates to improvements in means for mounting battery-guns; and the objects of my improvements are, first, to provide for the automatic lowering of the guns from their firing position to a protected position in which they may be loaded; second, to afford means whereby the lowering of one gun automatically brings a loaded gun into firing position, and, third, to provide for the ready and necessary adjustment of the guns both in elevation for range and in traverse. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a battery embodying my invention; and Fig. 2 is a horizontal section of the same, taken on lines *z z* of Fig. 1.

The base-plate contains the usual antifriction-rollers and the usual pivot, by virtue of which the mount may be revolved in order to direct the guns at various points of the compass. These rollers and the pivot are shown in dotted lines in Fig. 1. Connected to the base-plate E by the said pivot is the turn-table of the mounting E'. This table carries two standards D D', and in bearings provided at the tops of these standards, which bearings are in alinement with each other, are mounted the gun-carrying wheels A A', the axes B B' of these wheels being mounted eccentrically in the bushings R R', which fit the aforesaid alined bearings. The axes B B' are oppositely disposed in the bushings R R' relatively to the central line of the bearings. The bushings are connected together by a lever Q. The guns are mounted in the wheels A A' by means of trunnions *c c'*, these trunnions being offset along the length of the gun by an amount equal to the distance between the axes B B'. It will thus be seen that as the lever Q is elevated or depressed the bushings R R' will be revolved together an equal amount, and thereby the axis B of wheel A will be elevated above the center the same amount as the axis B' and its wheel A' are depressed below the center. As these wheels each carry a set a trunnions of the guns, the trunnions on one side will all be elevated, while those on the other are all depressed, and as these trunnions are offset in the length of the guns the guns will be elevated or depressed, according to the movement given to the lever Q. In my drawings the lever Q is merely a conventional representation of the means employed for revolving the bushings R R'. It will be understood that any well-known means can be employed for operating this lever without departing from my invention.

Any convenient number of guns may be employed in this battery, provided only there is a plurality of guns, two or more.

In the operation of the battery the gun which is at the top of the wheels is in firing position above the fortification. When this gun is fired by any well-known means, its recoil will bring it to a position below and protected by the fortification, where it may be loaded with safety to the men employed, and at the same time another gun will be elevated to the firing position. It will be obvious that all the guns will constantly maintain the same elevation determined by the position of the lever Q, and it will also be obvious that this lever Q may be operated to traverse the guns.

What I claim as my invention is—

1. In a revolving battery, a series of guns each having its trunnions offset from each other along the axis of the gun, a pair of vertical wheels journaled on the turn-table with their centers offset from each other by an amount equal to the offset of the trunnions, the gun-trunnions being journaled in their corresponding wheels, and means for raising the center of either wheel and simultaneously lowering the other an equal amount, whereby all the guns are equally elevated or depressed, substantially as described.

2. In a revolving battery, a horizontal turn-table, a pair of bushings journaled in alinement in the tops of the standards and connected together by a forked lever, a pair of vertical wheels each journaled in one of said

bushings with an equal and opposite offset from the center thereof, and a plurality of guns each having its trunnions offset along its axis by an amount equal to the offset of the wheel-centers from each other, said trunnions being journaled in their corresponding wheels, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL WALKER.

Witnesses.
M. O. REGAN,
M. J. REGAN.