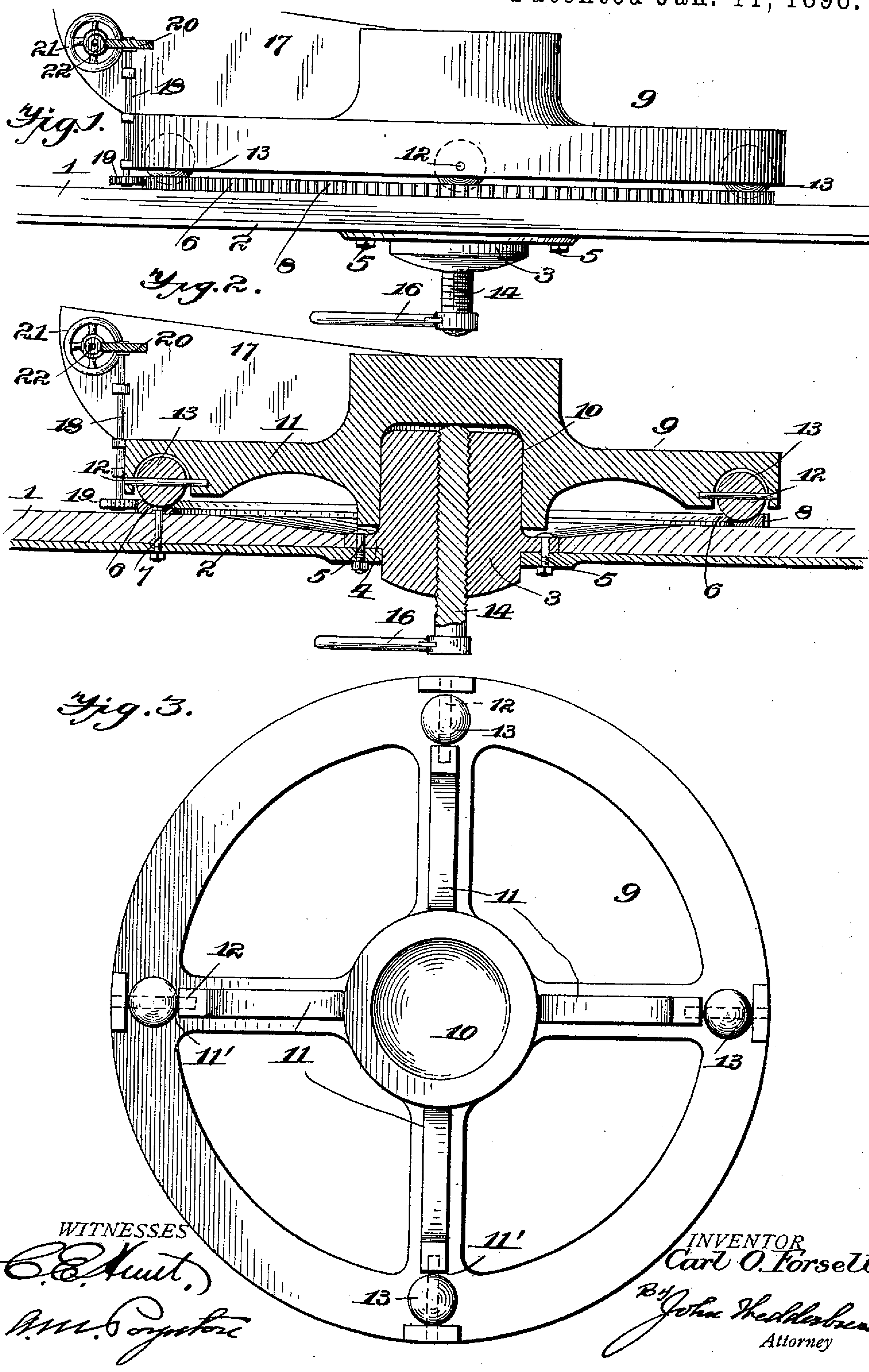
(No Model.)

C. O. FORSELL
GUN MOUNT.

No. 597,178. Patented Jan. 11, 1898.



WITNESSES

[signature]

[signature]

INVENTOR
Carl O. Forsell,
By John Wedderburn
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CARL OSCAR FORSELL, OF NEW YORK, N. Y.

GUN-MOUNT.

SPECIFICATION forming part of Letters Patent No. 597,178, dated January 11, 1898.

Application filed March 25, 1897. Serial No. 629,126. (No model.)

To all whom it may concern:

Be it known that I, CARL OSCAR FORSELL, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Turn-Tables for Ordnance; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to turn-tables for ordnance.

My object is to provide an improved turn-table for the gun-carriage which will be of extremely simple construction and will comprise novel mechanism whereby said turn-table may be rotated with great ease.

The foregoing object is accomplished by the provision of certain improved devices, whose construction will appear more fully in the following description, and the novel features thereof will be pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation, Fig. 2 is a sectional elevation, and Fig. 3 a bottom plan view, of the table.

The numeral 1 designates the wooden deck of the vessel or the platform in case the turn-table is used on land. Below this wooden deck there is a metal deck 2.

The numeral 3 designates a center block provided with an annular flange 4, which extends through the wooden deck and rests on the projecting edge of the metal deck. Bolts 5 are employed for bolting the flange of the pivot to the metal deck.

The numeral 6 designates a circular track which is suitably bolted to the two decks at 7, and this track is provided with a rack 8 on its outer face or edge.

The numeral 9 designates the turn-table, the same being formed with a central chamber or pocket 10, which loosely receives the block. This turn-table has radial strengthening-webs 11 on its under face, and there are recesses 11′ made in the outer ends of said webs.

The numeral 12 designates spindles, which are fixed in the webs and extend across the pockets or chambers therein, and I employ spherical rollers 13, which are journaled on said spindles and are adapted to run on the track 6.

The numeral 14 designates a jack-screw, which is threaded through the center of the pivot 3 and has an upper rounded end adapted to bear against the turn-table. At 16 there is shown a ratchet-lever for actuating this jack-screw.

The gun-carriage is shown at 17, and this may be of any construction desired, the same not constituting a part of the present invention. There is a vertical shaft 18, journaled in the bearings connected to the carriage and the turn-table, and the same carries on its lower end a pinion 19, which meshes with the rack-face 8 of the track.

The numeral 20 designates a worm-wheel carried on the upper end of the shaft. There is a hand-wheel 21, provided with a worm 22, which meshes with the wheel 20, and which is journaled to the gun-carriage.

The gunner by turning the hand-wheel 21 can now easily swing the turn-table around to any desired point and at the same time train the piece of ordnance. It will be observed that the weight is distributed between the rounded end of the jack-screw and the spherical rollers which run on the track, the bearing-points being few and of small area. The operation of turning the table, and hence the piece of ordnance, is extremely easy and can be accomplished by one man. After the table has been properly turned the jack-screw can be turned down again.

When the turn-table is installed, a suitable space is left between it and the upper end of the center block, because after continued use said table will settle somewhat, and if the space is not provided the turn-table would be lifted from the track.

It will be observed that the center block serves a twofold function—namely, as a pivot for the turn-table and as an abutment to resist the lateral movement of the turn-table occasioned by the recoil of the piece of ordnance.

There are many slight changes which could be resorted to—such, for instance, as substituting a worm-wheel gear for elevating and depressing the jack-screw—without detracting from any of the advantages of the invention, and hence it is to be understood that I

do not limit myself to the precise construction herein shown and described, but consider that I am entitled to all such changes as properly come within the spirit and scope of the invention.

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

1. The combination with a turn-table and a stationary center block fitted into the turn-table centrally thereof, of a vertically-disposed jack-screw threaded through the center block, means for turning the jack-screw to bring the end thereof against the turn-table, and means for turning the table.

2. The combination with a stationary center block, of cylindrical shape, of a turn-table provided with a chamber or pocket which loosely receives the center block, a vertically-disposed jack-screw threaded through the center block and whose upper end is adapted to be brought under and against the turn-table, means for turning the same to bring it against the turn-table, and means for turning the table and rollers carried by the turn-table at the periphery thereof.

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

CARL OSCAR FORSELL.

Witnesses:
HARRY REXFORD VALLENTINE,
SAMUEL ARTHUR WEISMAN.