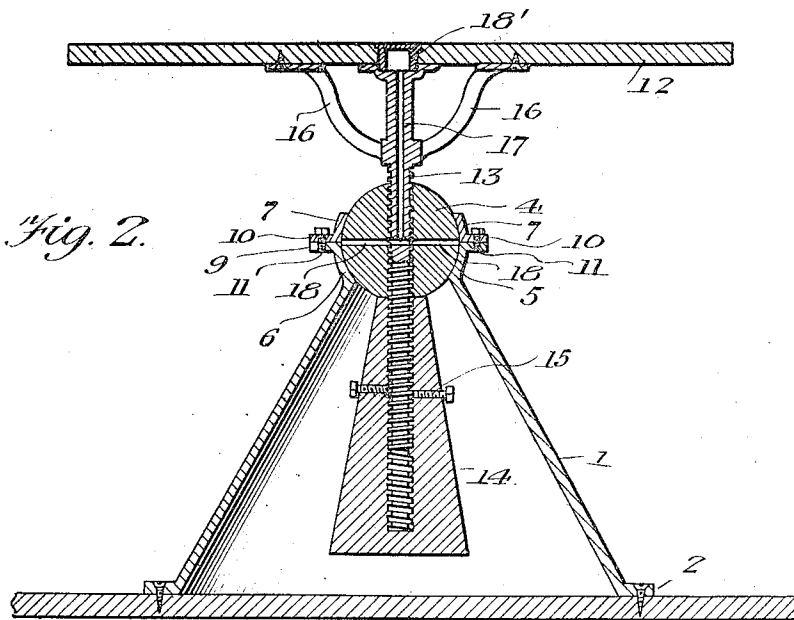
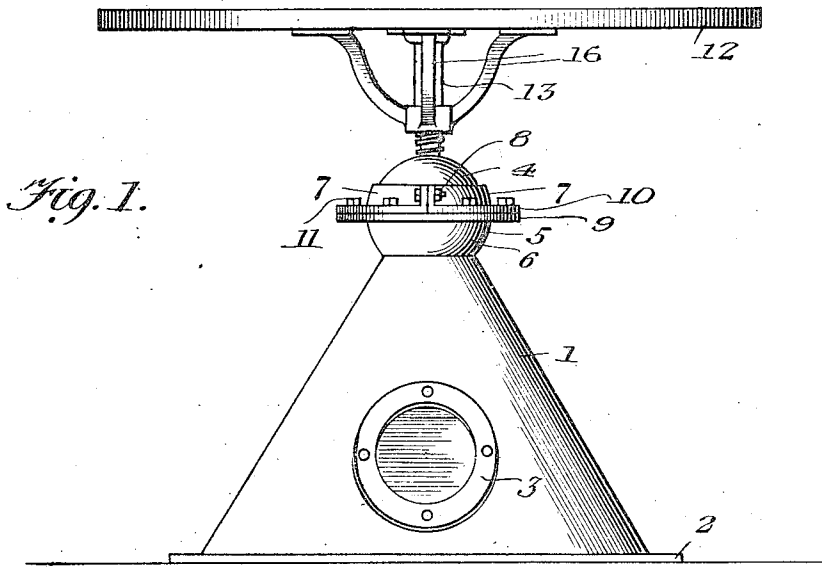


J. GARNERO.
 SELF LEVELING TABLE.
 APPLICATION FILED JUNE 6, 1917.

1,260,181.

Patented Mar. 19, 1918.



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WITNESSES

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JOHN GARNERO, OF JUNEAU, TERRITORY OF ALASKA.

SELF-LEVELING TABLE.

1,260,181.

Specification of Letters Patent.

Patented Mar. 19, 1918.

Application filed June 6, 1917. Serial No. 173,206.

To all whom it may concern:

Be it known that I, JOHN GARNERO, a citizen of Italy, residing at Juneau, Territory of Alaska, have invented new and useful Improvements in Self-Leveling Tables, of which the following is a specification.

This invention is an improved self-leveling device such as a table for use on a ship, a gun platform, or other structure which it is desirable to keep level when a ship is in a sea wave, the object of the invention being to provide an improved self-leveling table or device of this character which is simple in construction and which may be readily lubricated.

The invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings:—

Figure 1 is an elevation of a self-leveling table constructed and arranged in accordance with my invention.

Fig. 2 is a detailed sectional view of the same.

My invention is here shown as embodied in a self-leveling table for use on a ship but I would have it understood that the invention may be embodied in a gun platform, a floor or other structure within the scope of my invention.

A base 1 is provided which is here shown as conical and which in practice is preferably made of heavy sheet metal and is provided at the lower side with an outwardly turned flange 2 which may be readily secured on a floor or deck by screws or the like, the said flange being provided with openings for the screws as shown. A man-hole is provided as at 3 to enable repairs to be readily effected. At the upper end of the base is a ball 4 which is mounted for universal movement in a socket 5 which socket comprises a lower member 6 and segmental upper members 7. The upper members are bolted together at their ends as at 8. The lower and upper members of the socket are respectively provided with outwardly turned flanges 9, 10. Bolts 11 engage openings in said flanges

and serve to securely and detachably hold the members 7 on the member 6.

The table, platform or other structure 12 which is to be kept level is provided at the center with a standard 13 which is screw threaded and downwardly through and engages a central threaded opening in the ball. A weight 14 which is here shown as conical has a central threaded opening in which the lower portion of the standard is engaged. The upper end of the weight bears against the lower side of the ball and the standard is adjustable vertically to raise or lower the table or platform and the weight is correspondingly vertically adjustable on the standard to permit of such adjustment of the table or platform. To secure the weight against the turning on the threaded standard I provide a lock pin 15 which passes an opening in the weight and engages the thread of the standard. In practice the screw thread of the standard is square to facilitate the engagement thereof by the locking pin.

Brackets 16 are at the other end of the standard and bear under and secure the table or platform. The upper portion of the standard has a vertical bore 17 at the lower end of which are radially arranged bores 18 to convey lubricant to the coacting surfaces of the ball and socket joint. A tank 18 of suitable size for the lubricant is counter-sunk in the center of the table or platform and supplies the lubricant to the bore or duct 17 as will be understood.

While I have herein described and shown a preferred form of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts, without departing from the spirit of my invention and within the scope of the appended claim.

Having thus described my invention, I claim:—

In a self-leveling structure of the class described, a conical base, a ball, a socket element at the upper end of the base and in which the ball is fitted for universal annular

movement, a standard extending through
and engaging a threaded opening in the ball,
a table or the like secured on the upper end
of the standard and a conical weight having
5 threaded engagement with the lower end of
the standard, coacting therewith and with
the said ball and socket member to preserve
the level of the table or the like, the said

conical weight bearing directly against the
lower side of the ball to prevent casual 10
turning of the screw and table and being
provided with means to lock the weight
against turning movement on the screw
standard.

In testimony whereof, I affix my signature. 15
JOHN GARNERO.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."