F. A. EWER.

SPIRIT LEVEL.

APPLICATION FILED MAY 9, 1912.

1,141,325. Patented June 1, 1915.

FIG. 1

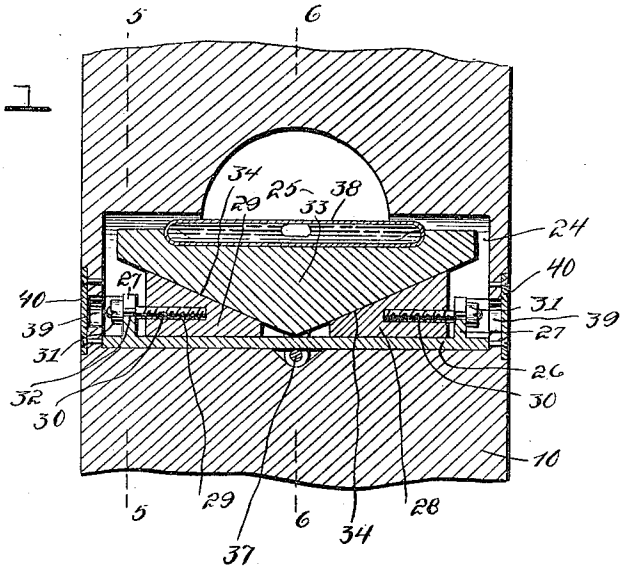


FIG. 2

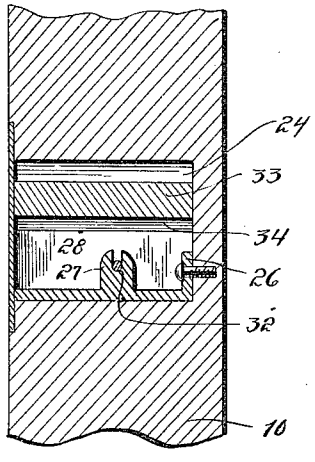
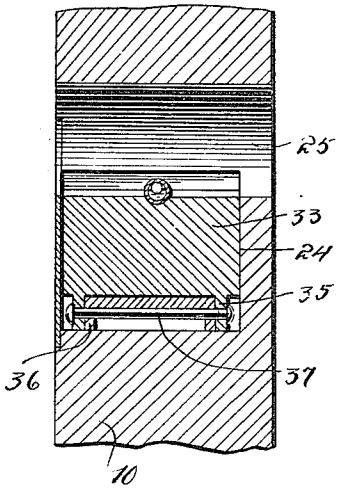


FIG. 3



Witnesses

Frank S. Ratcliffe.

Harry M. Test.

Inventor

F. A. Ewer

By Chandlee & Chandlee

Attorneys

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

UNITED STATES PATENT OFFICE.

FRANK A. EWER, OF VICTOR, NEW YORK.

SPIRIT-LEVEL.

1,141,325. Specification of Letters Patent. Patented June 1, 1915.

Application filed May 9, 1912. Serial No. 696,211.

To all whom it may concern:

Be it known that I, FRANK A. EWER, a citizen of the United States, residing at Victor, in the county of Ontario, State of New York, have invented certain new and useful Improvements in Spirit-Levels; 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.

This invention relates to improvements in levels, and has particular reference to a spirit level.

The principal object of this invention is to provide a simple and efficient device of this character for adjusting the spirit tube of the level.

Other objects and advantages will be apparent from the following description and with particular reference to the accompanying drawings.

In the drawings: Figure 1 is a fragmentary sectional view through the spirit plumb of the level, showing my invention, Fig. 2 is a vertical transverse sectional view on the line 2—2 of Fig. 1, and Fig. 3 is a vertical transverse section on the line 3—3 of Fig. 1.

Referring to the drawings I show a plumb level 10, the several parts of which are mounted in the recess 24 formed in one of the sides near one end of the level. An opening 25 is formed clear through the body of the level so that the spirit tube may be viewed from either side. A plate 26 is secured to the bottom of the recess, and carries a pair of bifurcated lugs 27. Arranged to slide on the plate 26 is a pair of wedge blocks 28, each of said blocks being provided with a threaded recess 29 to receive the threaded portion 30 of one of the adjusting screws 31. Each of said screws is formed with a reduced portion 32 which is disposed in the bifurcation of the lug 27 the head of the screw and the shoulder thus formed preventing longitudinal movement of the screw. The block 33 has the inclined faces 34 and is provided at the meeting point of the faces with a pair of depending perforated ears 35, the plate 26 being provided with similarly formed ears 36, while a shaft 37 is disposed through the ears on which the block rocks. The block carries a spirit tube 38 as shown.

Formed through the end walls of the recess 24 and communicating therewith are the openings 39, through which a screw driver may be passed to engage the heads of the screws 29 so that the wedge blocks 28 may be moved along the plate 26 to tilt the block 33 as desired. Each of the openings 39 has a closure plate 40 removably secured thereover.

From the foregoing it will readily be seen that I have provided a simple device of this character, and one in which the adjustment is such that the danger of the level becoming deranged is reduced to a minimum.

What is claimed is:

In a spirit level, the combination with a body portion having a recess, of a plate secured in the bottom of said recess, a pivoted rocking block mounted on the plate, said block carrying a spirit tube, the bottom of said block being formed with longitudinally extending and oppositely inclined faces, longitudinally disposed wedge blocks mounted on the plate below and engaging the inclined faces of the rocking block and adjusting screws mounted on the plate and connected to the wedge blocks, for moving said wedge blocks under the rocking block to rock the same on its pivot whereby the rocking block is prevented from movement laterally.

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

FRANK A. EWER.

Witnesses:
C. A. MOORE,
A. HIGINBOTHAM.

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