

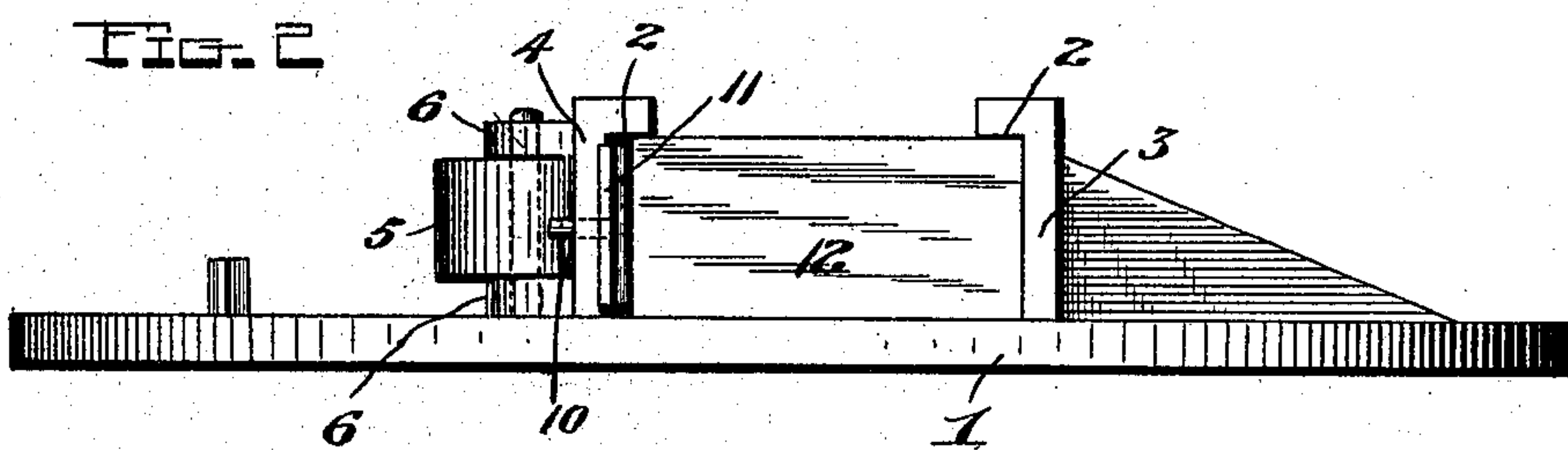
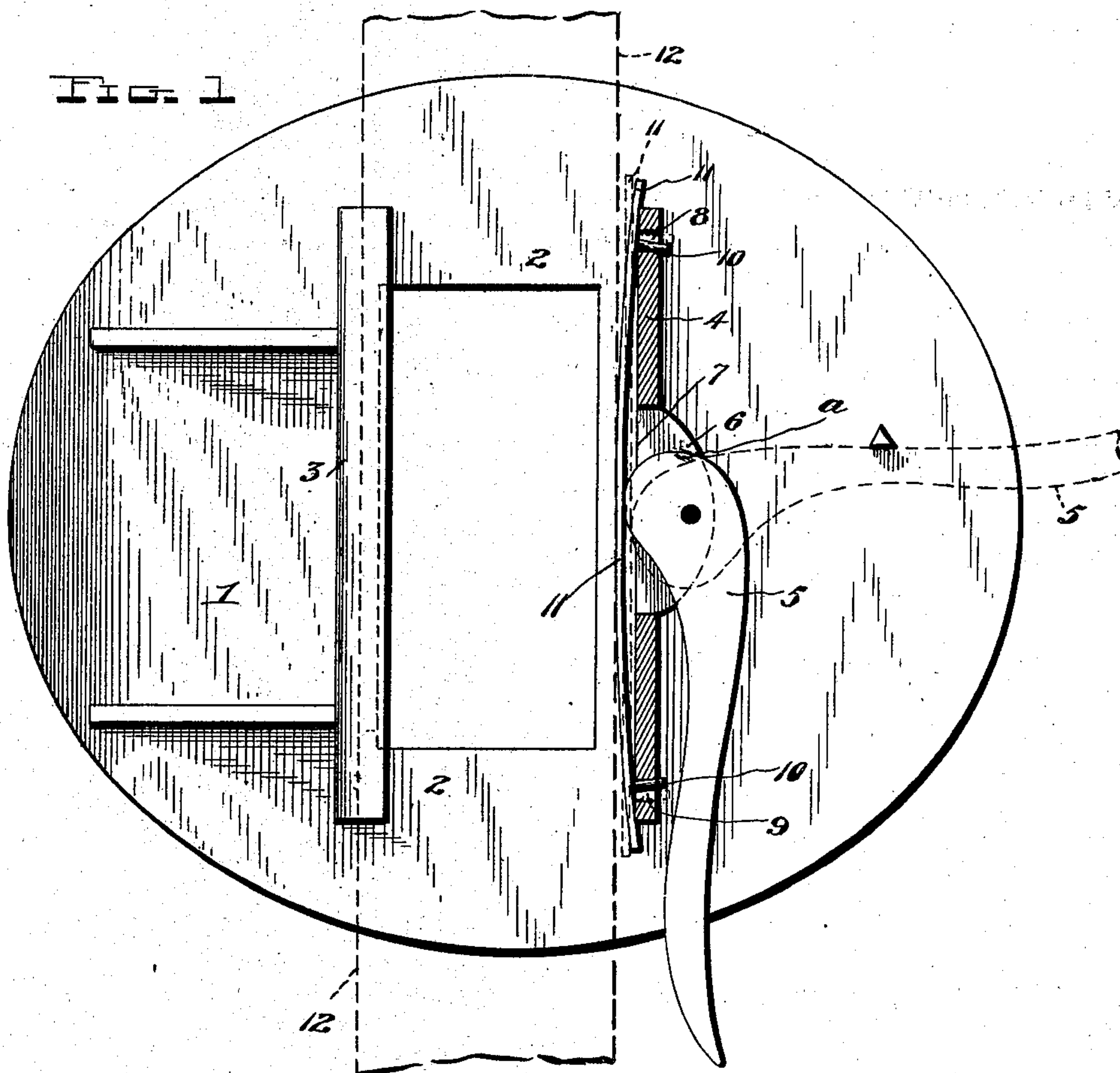
No. 695,528.

Patented Mar. 18, 1902.

J. H. BECKLEY.
ENGINEER'S LEVELING ROD.

(Application filed Jan. 9, 1902.)

(No Model.)



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

JOHN HOWARD BECKLEY, OF LEBANON, PENNSYLVANIA.

ENGINEER'S LEVELING-ROD.

SPECIFICATION forming part of Letters Patent No. 695,528, dated March 18, 1902.

Application filed January 9, 1902. Serial No. 89,037. (No model.)

To all whom it may concern:

Be it known that I, JOHN HOWARD BECKLEY, a citizen of the United States, residing at Lebanon, in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Engineers' Leveling-Rods; and I do 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.

The invention relates to engineers' leveling-rods.

The object of the invention is to provide a simple, durable, and comparatively inexpensive means whereby the target may be easily and expeditiously clamped in adjusted position even when the fingers of the engineer are in a benumbed state.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a rear view, partly in section, of a target, illustrating my invention, the rod being shown in dotted lines; and Fig. 2 is a top plan view of the target and rod.

Referring to the drawings, 1 denotes the target, which may be of any well-known or approved construction and which is provided on its rear side with a guideway 2, formed by the vertically-arranged angle-plates 3 and 4.

5 denotes a cam-lever pivoted between lugs 6, formed integral with the end of the plate 4 and extending through an aperture 7, formed in said angle-plate. The ends of the angle-plate are provided with slots 8 and 9, through which project studs 10 of a flat spring 11, which spring is adapted to engage the rod 12 and be engaged by the cam-lever. In the position shown in Fig. 1 the lever is depressed and the spring forced against the rod, whereby the target is held in adjusted position. When it is desired to change the adjustment, the free end of the lever is raised, thus allowing the spring to straighten and free itself from fric-

tional contact with the rod and permitting of the movement of the target to the desired point of adjustment. When the rod is elevated to the position shown in dotted lines in Fig. 1, it will be observed that the spring will engage that part of the cam-shaped head of the lever denoted by the letter *a* and tend to hold the lever in that position, so as to be capable of being quickly grasped for the purpose of clamping the target in its new adjustment.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of the invention will be readily understood without requiring an extended explanation.

Various changes in the form, proportion, and details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

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

The combination with a target having guide-flanges, one of which is provided with an aperture intermediate its ends and with slots at its ends, of a rod upon which said flanges are mounted to slide, a lever pivoted to one of said flanges and projecting through the aperture arranged intermediate its ends, a flat spring mounted on the inner side of the flange and having studs which project through the slots at the ends of the flange, said spring being arranged within the path of movement of the lever, whereby in one position of the lever, the spring is clamped to the rod to hold the target in adjusted position, and in another position of the lever, the spring automatically unclamps itself from the rod and holds the lever in elevated position.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN HOWARD BECKLEY.

Witnesses:

WM. E. BOWMAN,
W. B. WEIRECH.