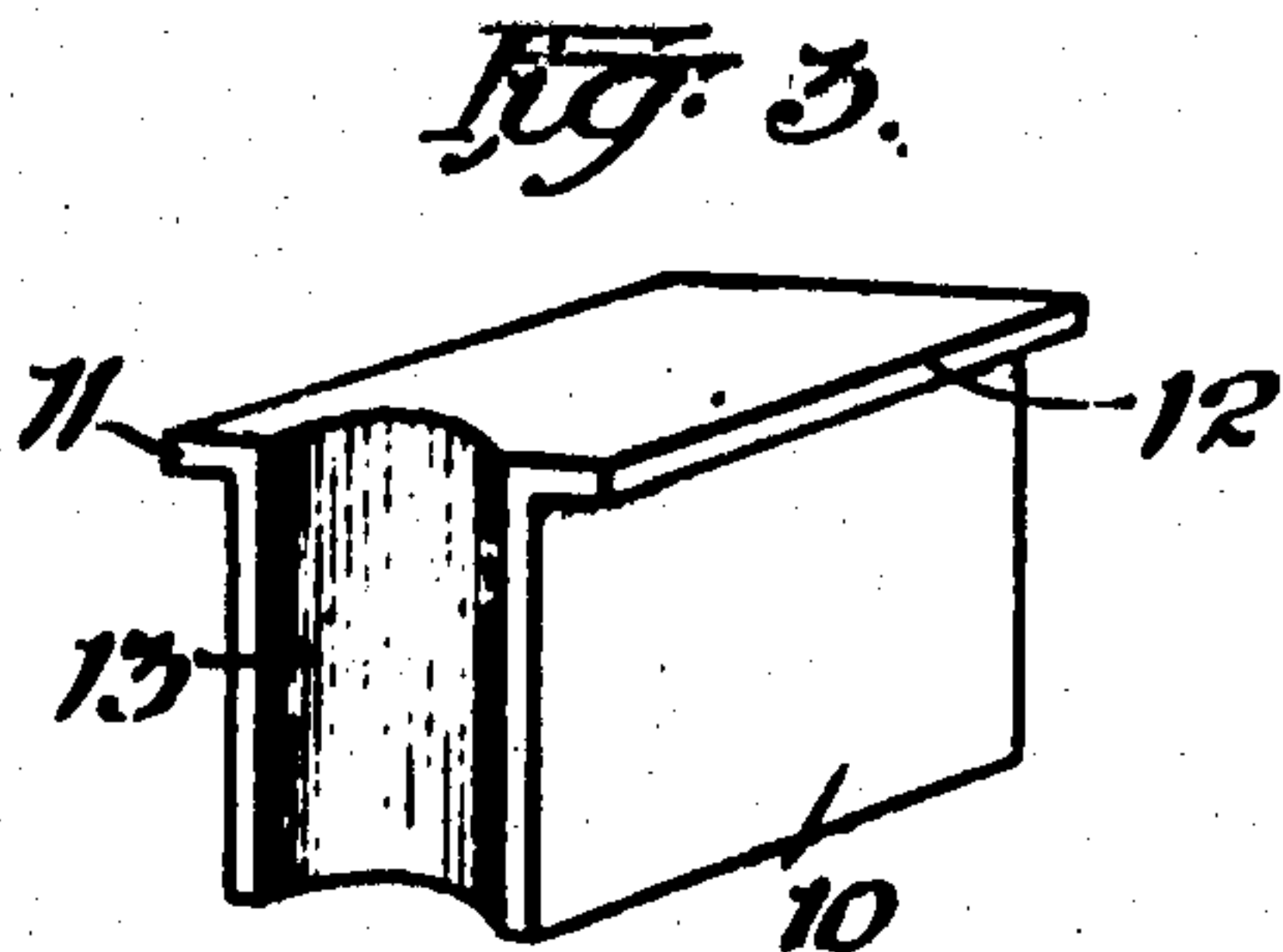
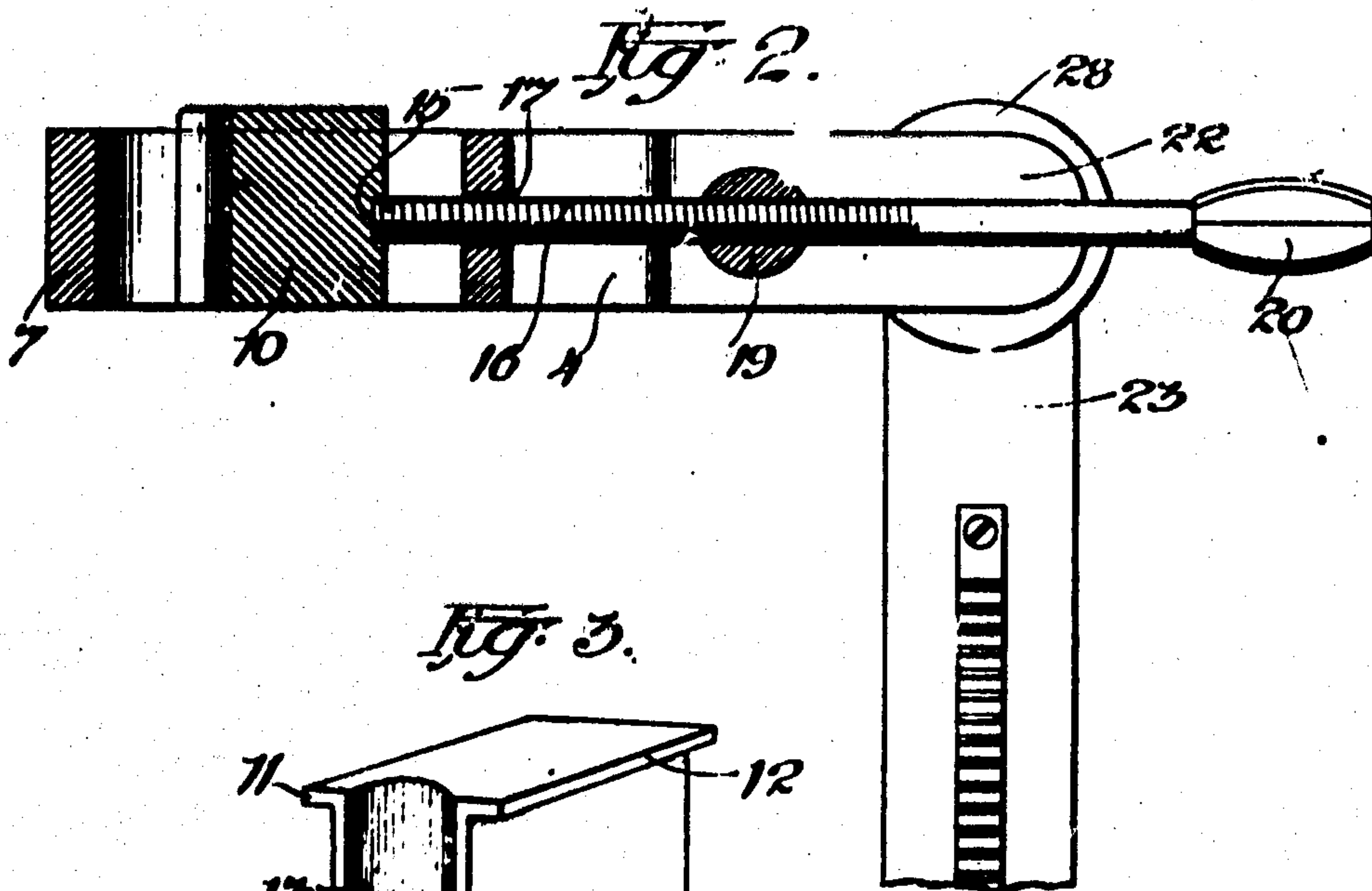
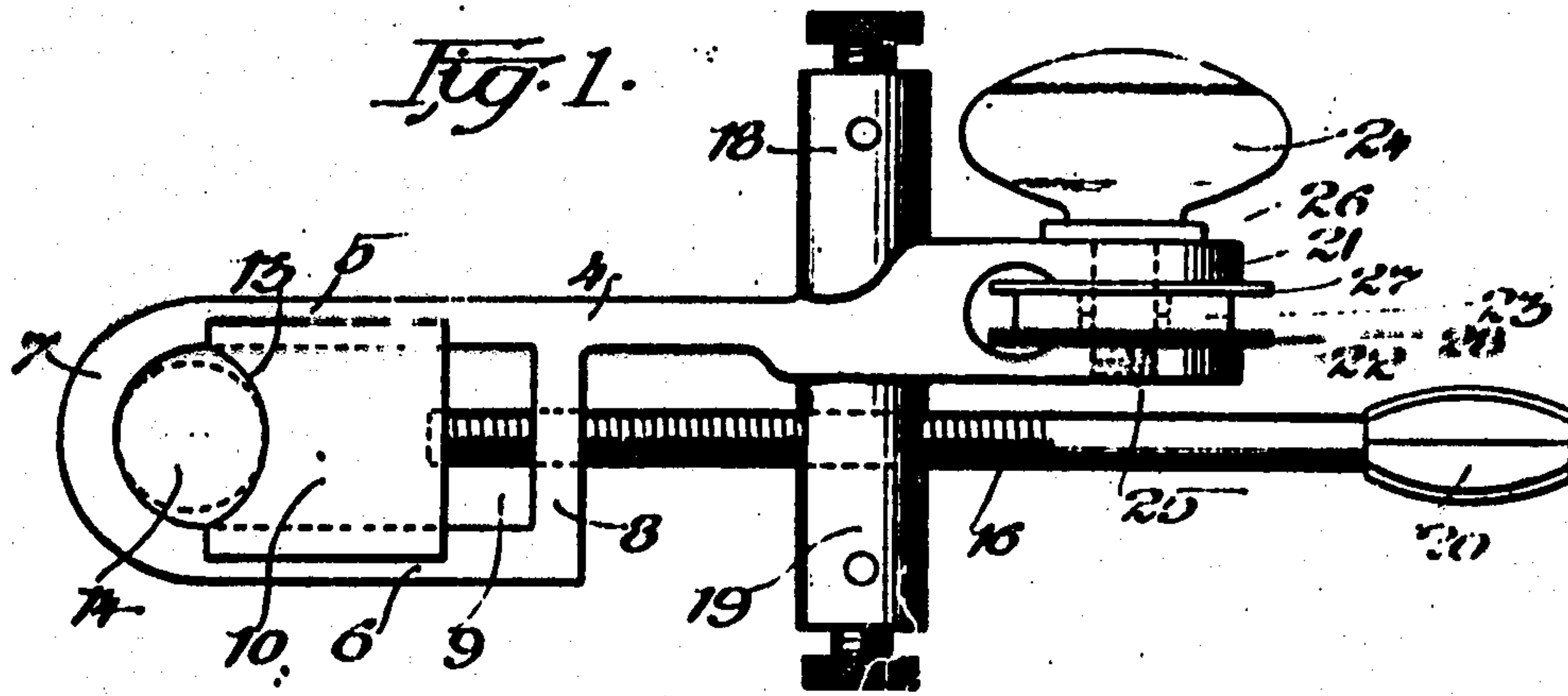


W. N. SELIG.  
CARBON HOLDER FOR ARC LAMPS.  
APPLICATION FILED FEB. 11, 1910.

984,496.

Patented Feb. 14, 1911.



Witnesses:

J. M. Daggett.

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Inventor

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# UNITED STATES PATENT OFFICE.

WILLIAM N. SELIG, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE SELIG POLYSCOPE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## CARBON-HOLDER FOR ARC-LAMPS.

984,496.

Specification of Letters Patent.

Patented Feb. 14, 1911.

Original application filed April 20, 1909, Serial No. 491,024. Divided and this application filed February 11, 1910. Serial No. 543,309.

*To all whom it may concern:*

Be it known that I, WILLIAM N. SELIG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Carbon-Holders for Arc-Lamps, of which the following is a specification.

This is a divisional application of which the original was Serial No. 491,024, filed April 20, 1909.

This invention relates to a novel and improved carbon holder for arc lamps; and has for its object to provide means for adjustably holding the carbons; means for facilitating the making of electrical connections with the carbons; means for holding the carbon firmly without danger of cracking or chipping; and in other ways to provide an improved carbon holder.

In the drawing, Figure 1 is a plan view of my improved carbon holder, showing by dotted lines a carbon pencil clamped in place; Fig. 2, an elevation of the device in section, showing the clamped block at its innermost position, and Fig. 3, an enlarged perspective of the clamping block.

In the figures, a clamping bracket 4 is formed so as to provide at one end a pair of side walls 5 and 6 connected by a rounded cross wall 7 and a back cross wall 8, so as to form an opening 9 in which a clamping block 10 may be moved. The clamping block is preferably provided with a pair of slides 11 and 12 adapted to rest on the slide walls 5 and 6. The inner end 13 of the clamping block is preferably curved in the form of an arc, so that the end 13 and the rounded cross wall 7 will conform, in a general way, to the shape of a carbon pencil 14, which may be clamped between them. The outer end of the clamping block is preferably provided with a recess 15 for receiving the end of a clamping screw 16 which passes through a hole 17 in the cross wall 8.

The clamping bracket 4 is provided on one side with an electric terminal 18, and on its other side with an electric terminal 19. The terminal 19 may be drilled and threaded so as to receive the clamping screw 16, as shown in Figs. 1 and 2. The end of the

clamping screw is preferably provided with a knob 20 of insulating material, so that by rotating the screw the clamping block may be made to press the carbon pencil. The clamping bracket 4 is provided on its other end with a pair of lugs 21 and 22 adapted to receive between them an arm 23. A thumb screw 24 or other suitable device is adapted to pass through the lugs 21 and 22 and the arm 23, being threaded at 25 into the lug 22, and the thumb screw is provided with a shoulder 26 for contacting the lug 21, so that as the thumb screw is rotated it will tend to force the lugs 21 and 22 toward each other, thereby clamping the arm 23 between them. Insulating means as 27 and 28 are provided for insulating the lugs 21 and 22 from the arm, and these may be in the form of half spools, so that the thumb screw will also be insulated from the arm 23. The provision of an electric terminal on each side of the bracket makes it possible for the operator to make an electrical connection to the carbon through the bracket from either side of the lamp, according to convenience, and the use of one of the electric terminals as a lug through which the clamping screw is threaded simplifies the construction of the carbon holder.

It will be understood that the end 13 of the clamping block does not necessarily have to be cut in the arc of a circle, nor does the rounded cross wall 7 have to be formed in such an arc, but the shape of these arcs may be in any suitable manner, so that they will conform in a general way to the shape of carbons of different sizes which may be clamped between them. The provision of the cross wall 8 is not necessary to the proper working of the carbon holder, but it strengthens the end portion in which the carbon pencil is clamped; provides means for supporting the end of the clamping screw; and serves as a back wall, thereby preventing the carbon block from falling away from the slide walls in that direction. It will be further understood that the arm 23 may be of any suitable form, and may be supported in any form of device necessary for regulating the vertical movements of the clamping bracket as a whole.



I claim:

In carbon holding devices, a bracket having a U-shaped head including a connecting cross wall, a clamping block having shoulders adapted to rest on the side walls of the U-shaped head and having a rounded end carbon contacting surface and being slidably mounted within the U-shaped head and

adapted to act in conjunction with the rounded end wall of said head for clamping the carbon, and a screw for actuating the clamping block, substantially as described.  
WILLIAM N. SELIG.

Witnesses:

HARRY A. SWIFT,  
HARRY GORDON.