

No. 784,306.

PATENTED MAR. 7, 1905.

R. L. CRIGLER.
SHADING DEVICE.
APPLICATION FILED APR. 18, 1904.

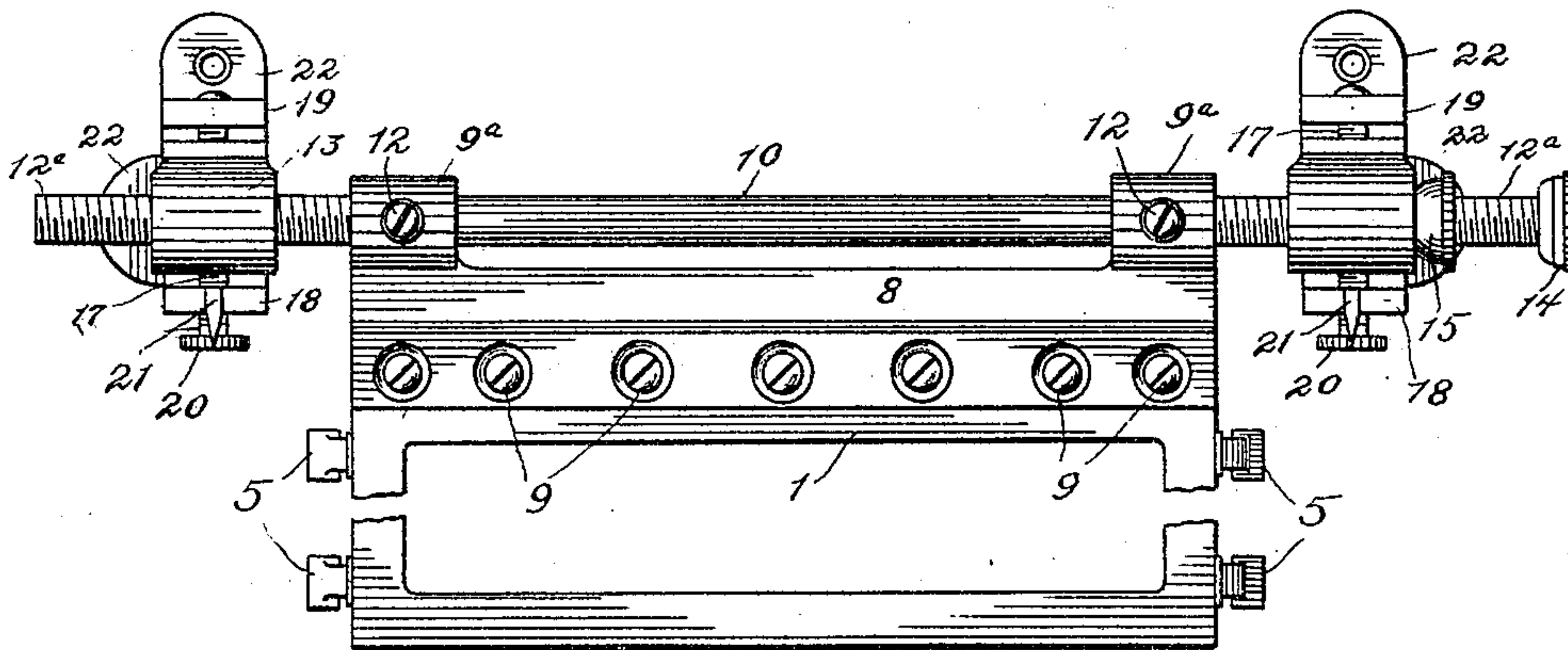


Fig. 1

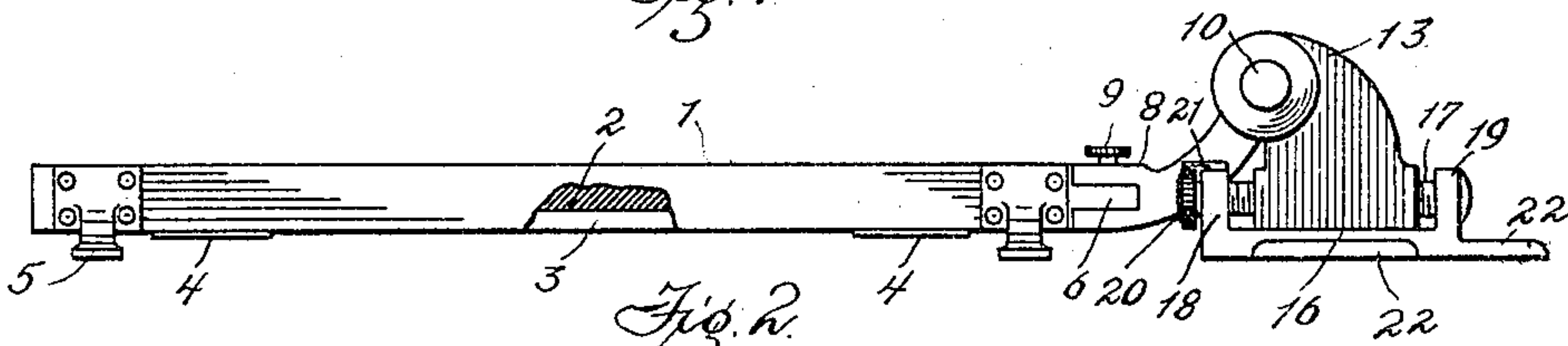


Fig. 2

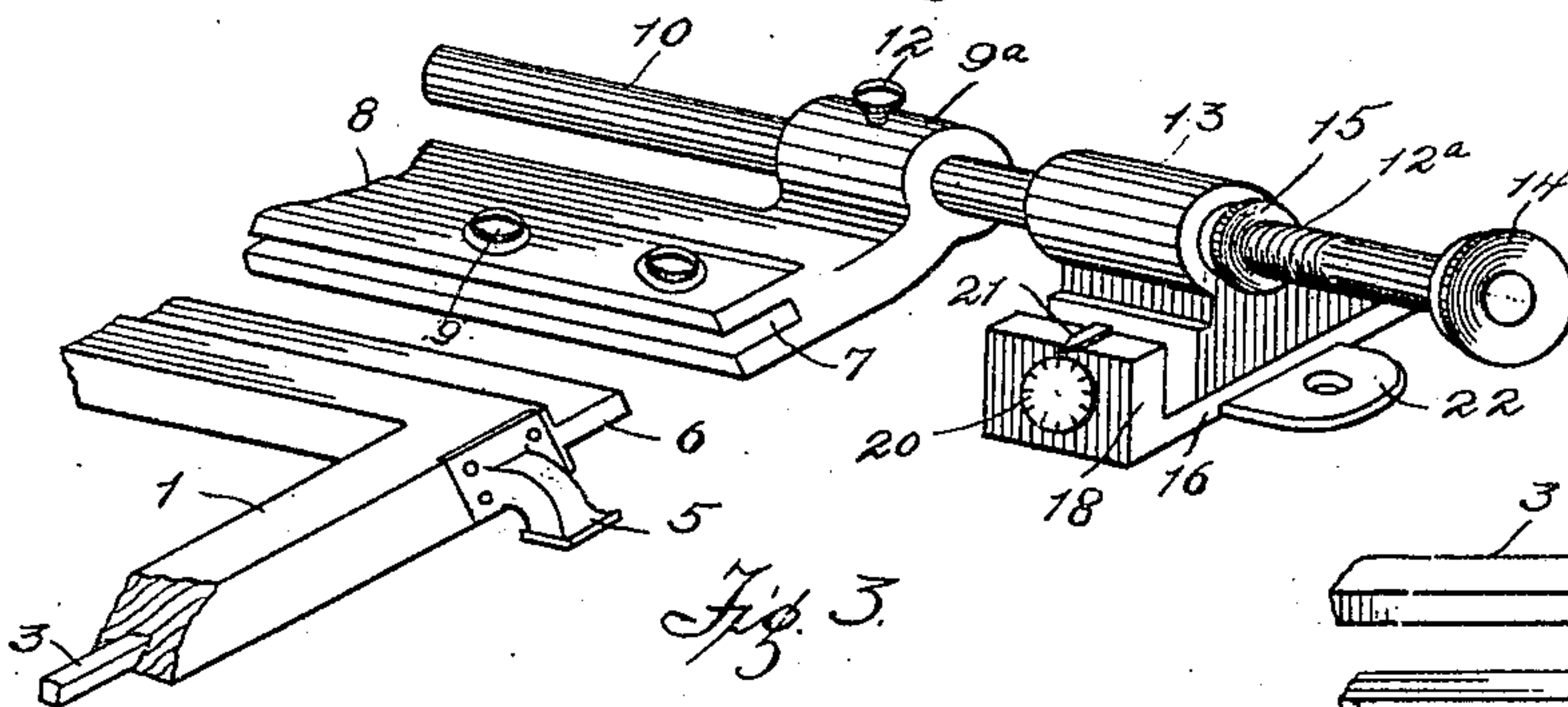


Fig. 3

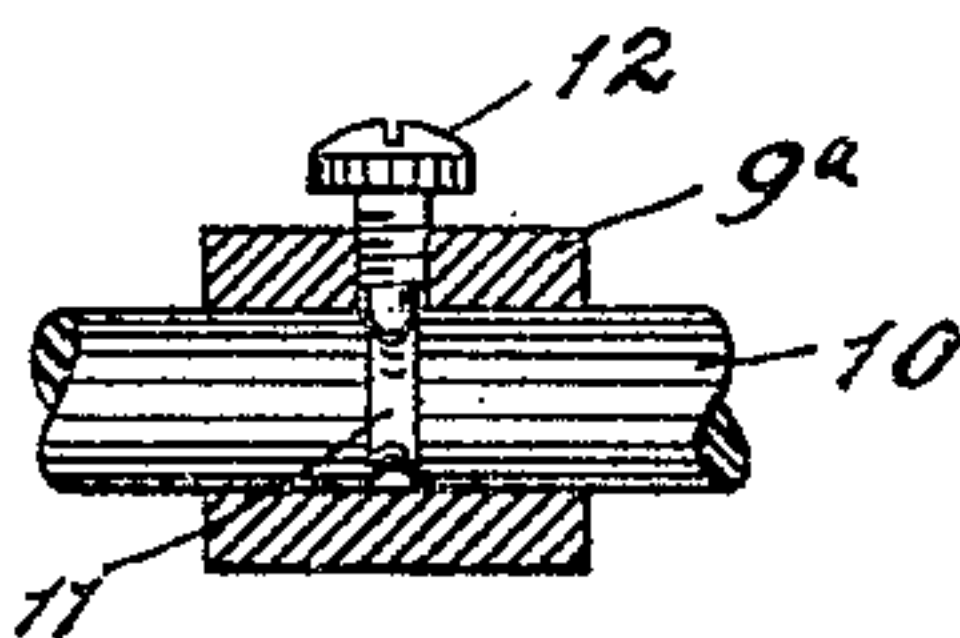


Fig. 4

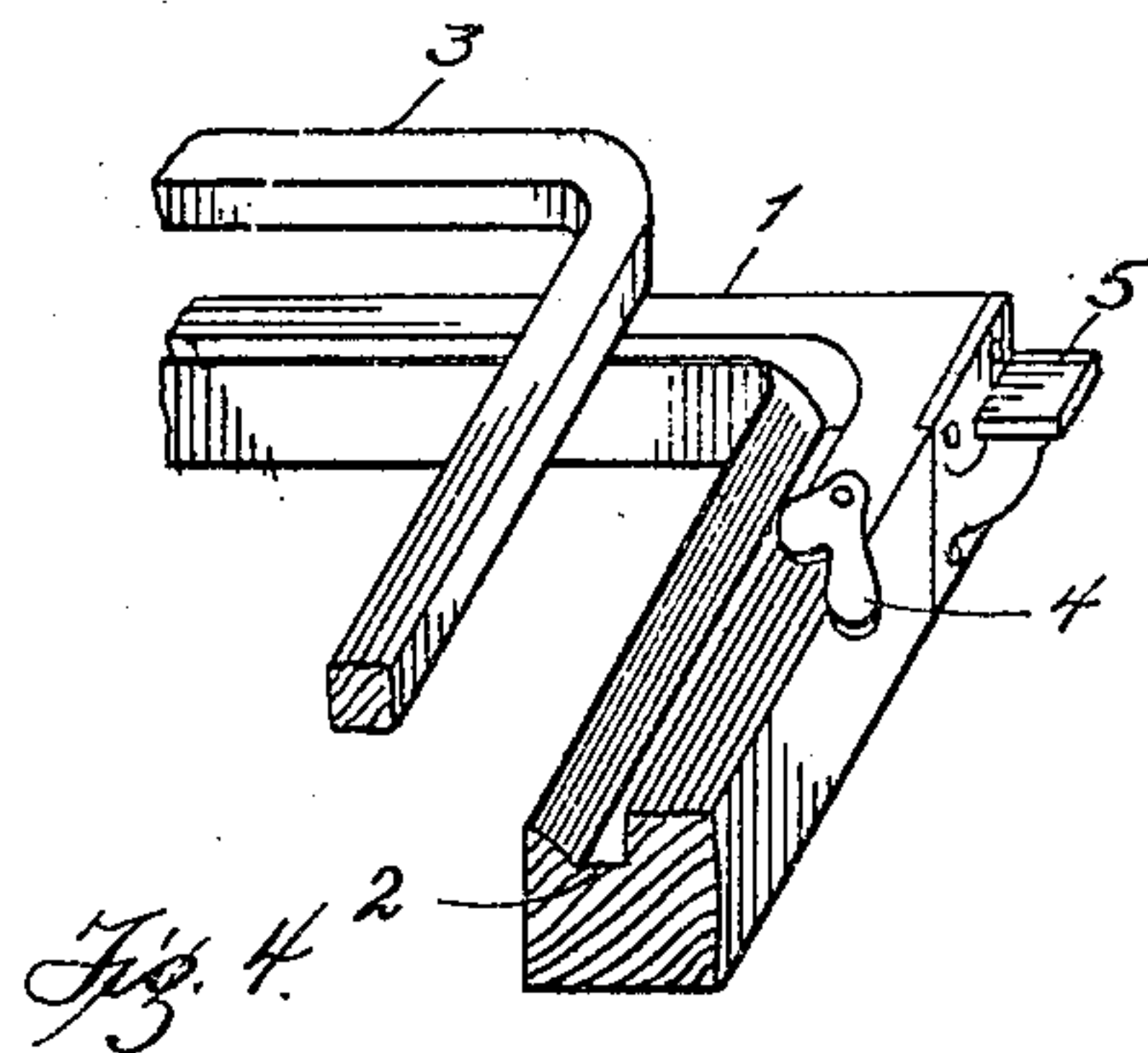


Fig. 5

WITNESSES:

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RICHARD L. CRIGLER, OF COLUMBUS, OHIO.

SHADING DEVICE.

SPECIFICATION forming part of Letters Patent No. 784,306, dated March 7, 1905.

Application filed April 18, 1904. Serial No. 203,552.

To all whom it may concern:

Be it known that I, RICHARD L. CRIGLER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Shading Devices, of which the following is a specification.

My invention relates to a new and useful improvement in shading devices.

10 The object of the invention is to provide a swinging holder which may be readily adjusted both longitudinally and transversely to the minutest degree.

Another object resides in means whereby 15 the holder may be adjusted after the parts of the device have been set to their adjusted positions.

Finally, the object of the invention is to provide a device of the type set forth that will be 20 strong, durable, and efficient and simple in its construction and one in which the several parts will not be liable to get out of working order.

With the above and other objects in view 25 the invention consists of the novel details of construction and operation, a preferable embodiment of which is described in the specification and illustrated in the drawings, wherein—

30 Figure 1 is a top plan view of the device. Fig. 2 is a side elevation showing the holder broken away to illustrate the clamping-frame. Fig. 3 is a partial perspective view of one side of the device. Fig. 4 is a bottom perspective 35 view showing the holder and the clamping-frame out of clamping engagement, and Fig. 5 is a vertical sectional view through one of the hinge-lugs of the holder-yoke.

In the drawings the numeral 1 designates 40 the holder, which may be of any suitable shape, having in its under face a groove 2, adapted to receive the clamping-frame 3, by which the transferring-sheet is secured to the holder, said frame being held in engagement with the 45 sheet and the holder by means of pivoted latches 4, which may be swung over the frame 3. The holder is provided with feet 5, by which it is supported over the tint-block or the like, in connection with which the device 50 is employed. A longitudinal tongue 6 is formed

along the rear edge of the holder and is movably held in the groove 7 of the yoke 8 by means of thumb-screws 9, of which a number are employed, so that holders of various widths may be securely fastened to the yoke and also 55 affording a longitudinal adjustment of the holder. The yoke 8 is formed with hinge-lugs 9", through which passes the longitudinal adjusting-rod 10. The rod 10 is formed with circumferential grooves 11, positioned centrally of the hinge-lugs and each engaged by 60 a rounded end screw 12, passed through the top of the hinge-lugs. It will be readily seen that the yoke is thus held against lateral displacement, but at the same time may be swung 65 upward and backward on the rod 10. The rod 10 is formed at its opposite ends with screw-threads 12", which engage in screw-threaded blocks 13. A thumb-nut 14 is fastened on one end of the rod 10, by which the 70 same may be turned to longitudinally adjust the yoke and the holder, the rod being locked in its adjusted position by a thumb-nut 15, which is screwed against the side of one of the blocks 13. The blocks 13 are mounted in boxes 75 16, so as to slide transversely with relation to the holder. Adjusting-screws 17, threaded through the blocks 13, are rotatably supported in lugs 18 and 19, the screws carrying on their forward ends graduated indicating-heads 20, 80 by which the screws are turned to move the blocks 13 back and forth. Indices 21, mounted on the lugs 18, project over the heads 20 and register with the graduations thereof, whereby the adjustment of the blocks 13 may be 85 gaged. The boxes 16 are provided with lateral projections 22, by which they are secured to the surface upon which the device is operated.

From the foregoing description the operation of the device will be clearly understood 90 and is as follows: The transfer-sheet having been placed over the under side of the holder 1 and the frame 3 forced down into the groove 2, thereby stretching the sheet, is held in place 95 by the latches 4. The holder is then in condition to be swung into position over the tint-block, as shown in Fig. 2. Should it be desired to adjust the holder longitudinally, the shaft 10 is turned, by means of the thumb-nut 100

14, until the desired adjustment is had, when the rod may be locked by the jam - nut 15. Should a transverse adjustment be desired, the blocks 13 are moved in their boxes 16 by means of the screw 17, the movement of which is gaged by the heads 20 and indices 21. It is to be understood that the blocks 13 may be adjusted independently of each other, as in some cases it is desired to increase the shading toward one corner, and this result may be had by adjusting one of the blocks 13 slightly forward or backward of the other. The difference in adjustment though, it is to be understood, is very fine and would hardly be perceptible without the use of the indices and graduated heads. The holder is further adjustable by means of the screws 9, which may be loosened, allowing the holder to be adjusted in both directions and securely locked by tightening the screws. It is obvious that by a very simple construction a device capable of the finest degree of adjustment is had. It is also to be noted that the holder may be readily swung upward and back, which greatly facilitates the removing and placing of the transfer-sheet and also allows a ready inspection of the work.

I do not wish to limit myself to the exact details of construction and operation set forth,

as I may make various changes in the same without departing from the spirit of my invention.

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

1. In a device of the type set forth, a holder, a yoke having hinge-lugs adjustably connected with the holder, a longitudinal adjusting-rod passing through the hinge-lugs whereby the yoke is swingingly mounted, blocks adjustably supporting the rod, boxes in which the blocks are slidably supported, and means connecting the boxes and the blocks for transversely adjusting the blocks.

2. In a device of the type set forth, a yoke having a groove therein, a holder having a tongue in adjustable connection with the groove of the yoke, a rod upon which the yoke is swingingly mounted, means for adjusting the rod longitudinally, sliding blocks for supporting the rod, fixed boxes for supporting the blocks, and means connected with the boxes for transversely adjusting the blocks and indicating the degree of such adjustment.

RICHARD L. CRIGLER.

In presence of—

M. B. SCHLEY,

W. L. MORROW.