

E. E. WINKLEY.
FORM ADJUSTING DEVICE.
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930,823.

Patented Aug. 10, 1909.

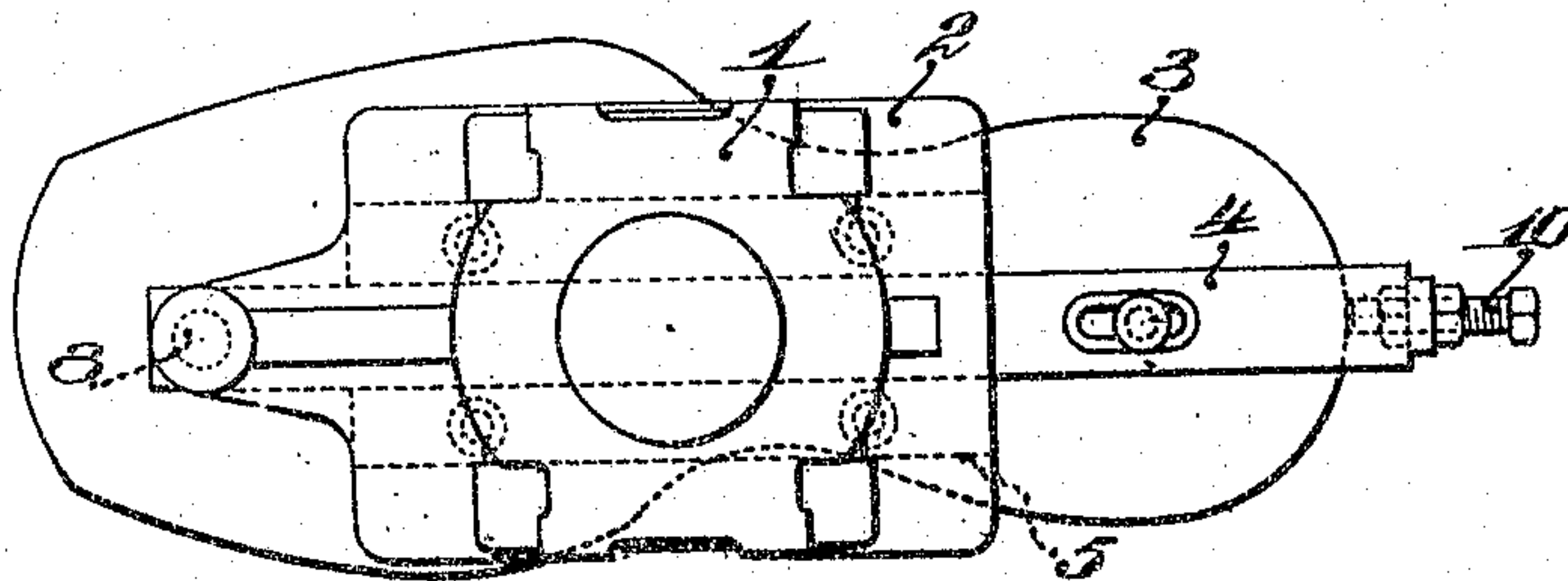


Fig. 1.

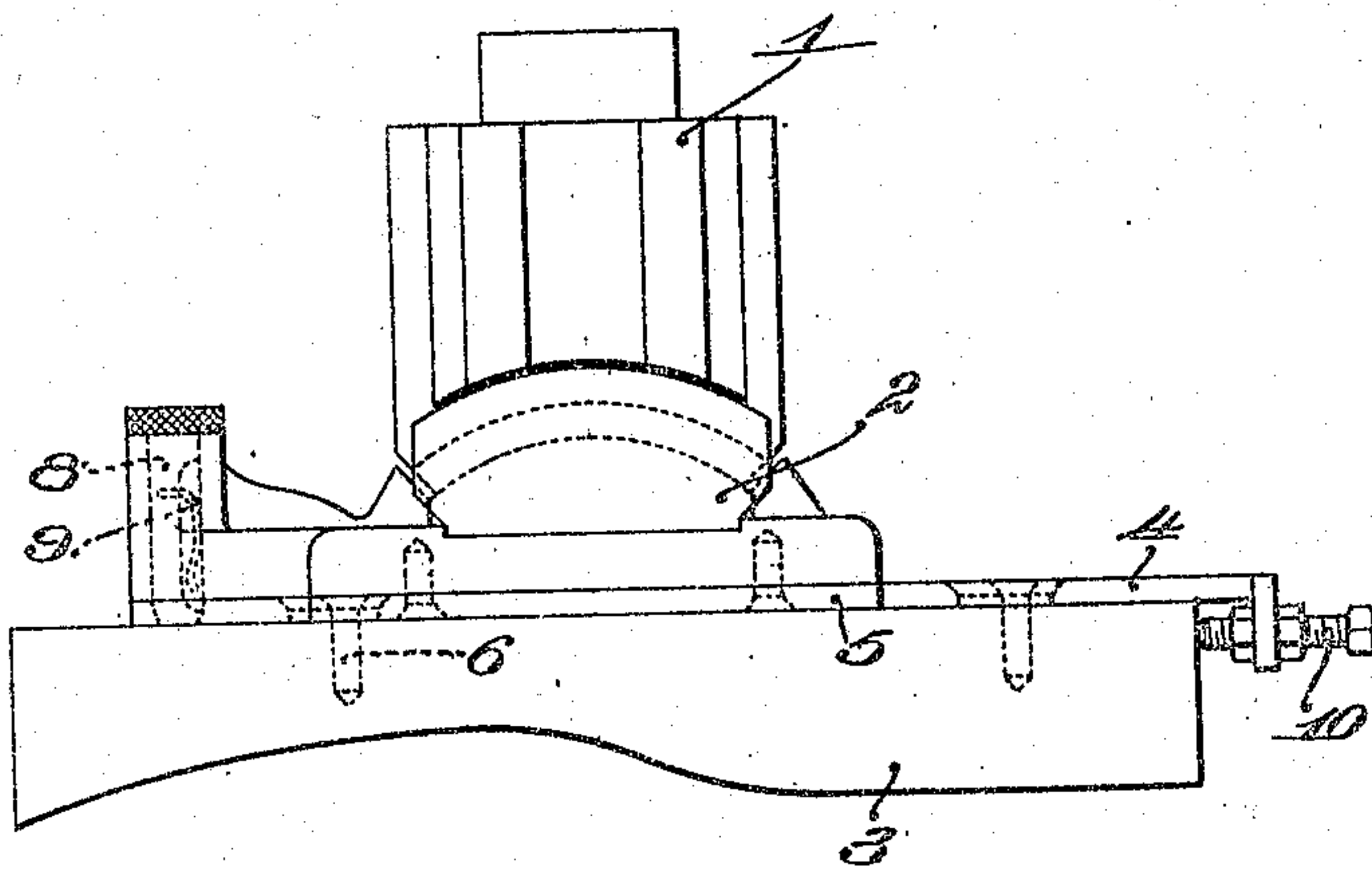


Fig. 2.

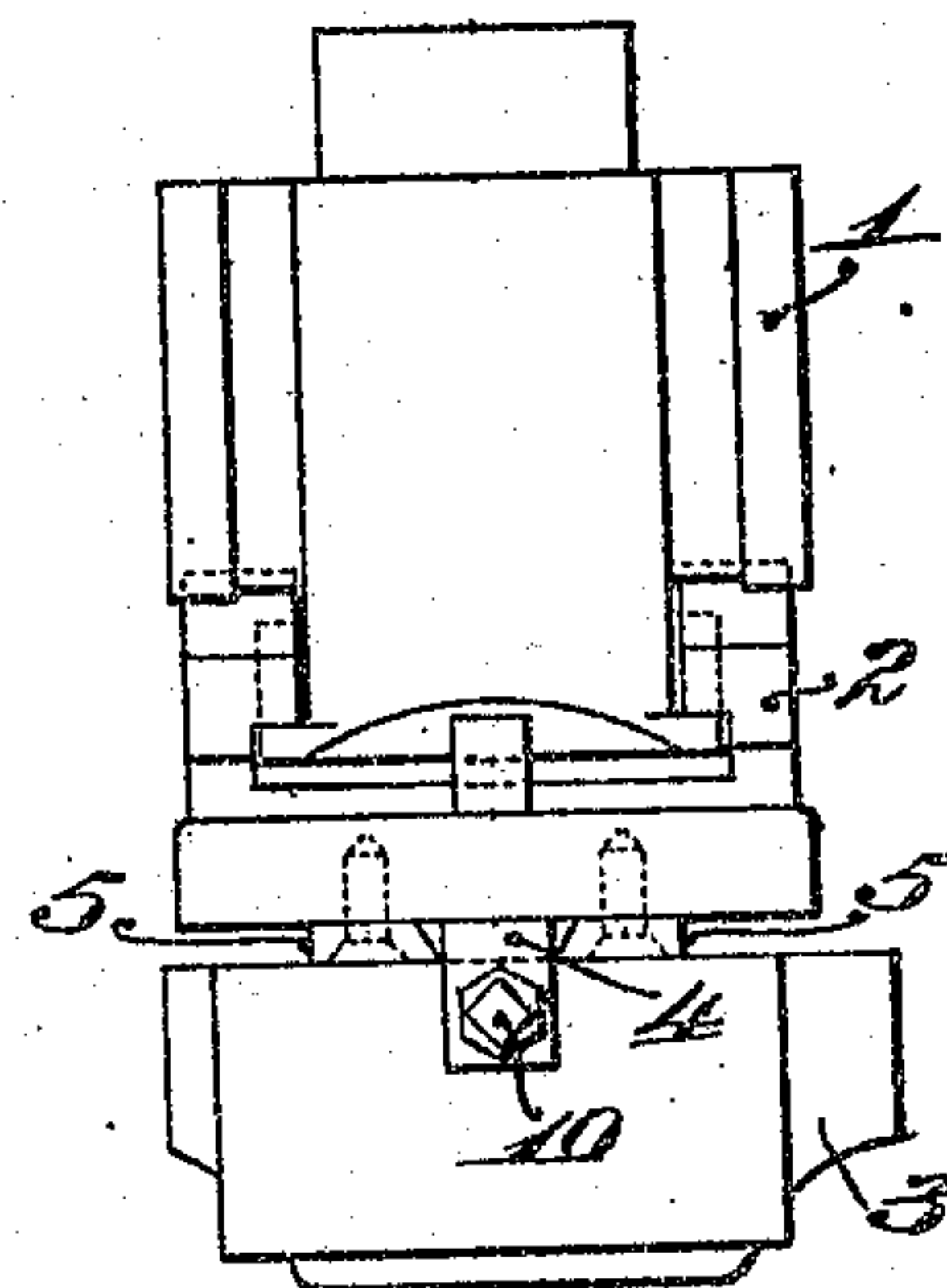


Fig. 3.

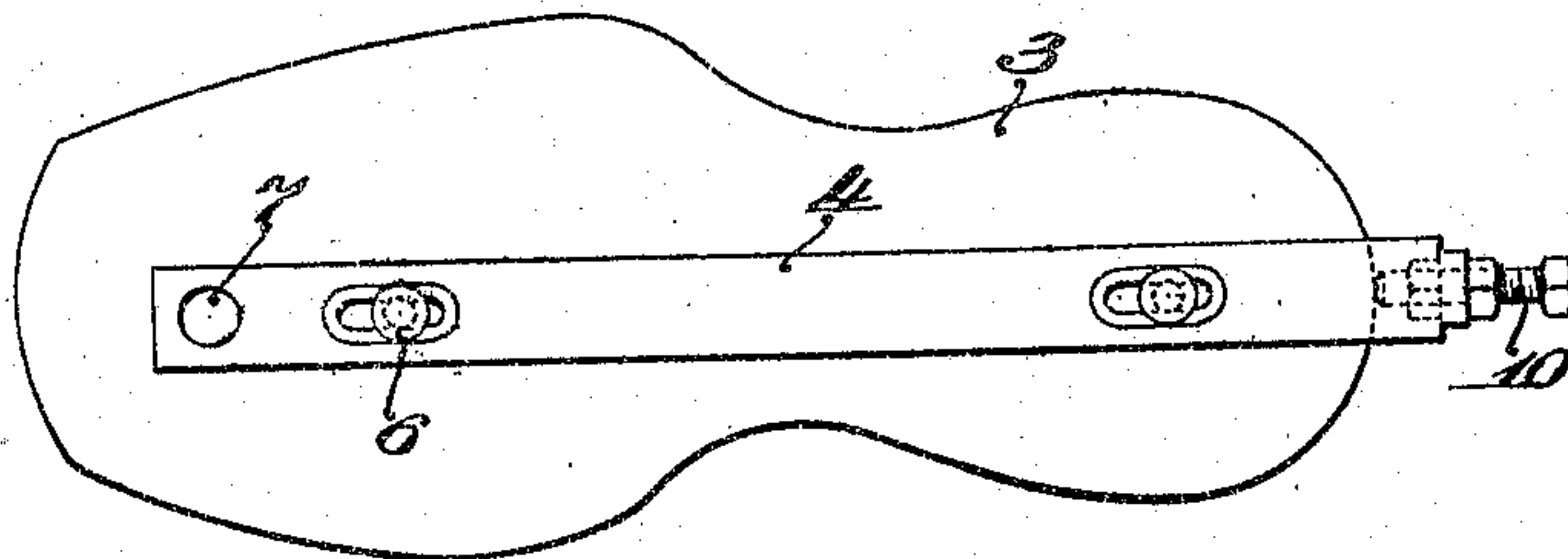


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

ERASTUS E. WINKLEY, OF LYNN, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

FORM-ADJUSTING DEVICE.

No. 930,823.

Specification of Letters Patent.

Patented Aug. 10, 1909.

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To all whom it may concern:

Be it known that I, ERASTUS E. WINKLEY, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Form-Adjusting Devices; 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.

The present invention relates to form adjusting and locking devices for the forms of sole pressing machines.

The object of the present invention is to provide an improved and simplified means by which a form can be securely but removably locked in position on a form carrier and by which the form can be adjusted to bring it into a position to properly cooperate with the form, shoe support or mold of a sole pressing machine in which the form is used.

To the above ends the present invention consists in the devices, combinations and arrangement of parts hereinafter described and claimed, the advantages of which will be obvious to those skilled in the art from the following description.

The invention will be clearly understood from the accompanying drawing in which is illustrated the preferred embodiment of the invention.

Referring to the drawing, Figure 1 is a plan view of a form, the form carrier and the block or cross-head upon which the form carrier is mounted, illustrating the preferred embodiment of the means constituting the present invention for locking the form upon the carrier and for adjusting the form; Fig. 2 is a view in side elevation of the parts illustrated in Fig. 1; Fig. 3 is a view in end elevation looking from the right of Figs. 1 and 2, and Fig. 4 is a plan view of the form and the plate secured thereto removed from the carrier.

1 indicates a block or cross-head of a sole pressing machine which is adapted to be secured in the frame of the machine in a manner well known to those skilled in the art. Upon the lower end of the block 1 is mounted a form carrier 2, the construction illustrated by which the carrier is supported on the block being one which has heretofore been used in sole pressing machines, and compris-

ing cooperating segmental guide flanges and grooves upon the block and carrier allowing a slight longitudinal tipping movement of the carrier.

3 indicates the form upon the upper surface of which is secured a plate 4, dove-tail in cross-section, which is adapted to be received in a supporting guideway formed by plates 5 secured upon the lower surface of the carrier 2.

In carrying out the present invention the plate 4 is adjustably secured to the form 3 by means of screws 6 passing through slots in the plate and screwing into the form. At its forward end the plate is provided with an aperture 7 which when the form is in position on the carrier co-acts with a locking pin 8 mounted to move vertically in a bearing in the front end of the carrier. This locking pin is provided at its upper end with a knurled head by means of which the pin can be raised or depressed by the operator. A friction spring 9 secured to the pin and arranged to bear against the side of the bearing for the pin serves to hold the pin in either its raised or lowered position. The form is placed on or removed from the carrier by sliding it endwise, the plate 4 sliding in the guideway formed by the plates 5. The locking pin 8 when in engagement with the aperture 7 holds the form rigidly in position but when raised out of engagement therewith allows the form to be readily removed. By adjusting the plate 4 upon the form 3 the position of the form with relation to the carrier is changed so that by this means the form can be adjusted to bring it into the desired position with relation to the form, shoe support or mold, with which the form is to cooperate. This adjustment is made before the form is placed on the carrier and when once made does not require to be changed, as the adjustment is not affected by the removal of the form from the carrier. Preferably the plate 4 extends beyond the rear end of the form and is provided with a downwardly extending projection in which is adjustably secured a stop screw 10 arranged to bear against the rear end of the form and resist the thrust of the form, during the sole pressing operation, tending to move the form rearwardly. It is to be understood that except as defined in the claims, the present invention is not limited to the details of construction illus-

trated in the drawing and above described but that the invention may be otherwise embodied.

Having thus described the invention, what is claimed is:—

1. The combination with a form, for use in a sole pressing machine provided with a form carrier and having a locking device for locking the form on the carrier, of a plate adjustably secured to the form and provided with means arranged to cooperate with said locking device.

2. The combination with a form, for use in a sole pressing machine provided with a form carrier and having a locking pin for locking the form on the carrier, of a plate adjustably secured to the form and provided with an aperture to cooperate with said locking pin.

3. The combination with the form of a sole pressing machine, of a plate adjustably secured to the form provided with an adjustable stop bearing against one end of the form, and with means arranged to cooperate with a locking device upon the form carrier of the machine, to lock the form on the carrier, substantially as described.

4. A sole pressing machine, having, in combination, a form, a plate adjustably secured to the form, a form carrier, and a locking pin mounted in the carrier arranged to engage the plate and removably secure the form in position on the carrier, substantially as described.

5. A sole pressing machine, having, in combination, a form, a plate adjustably secured to the form, a form carrier, and a locking device mounted in the carrier for removably securing the plate on the carrier, substantially as described.

6. A sole pressing machine, having, in combination, a form, a plate adjustably secured to the form provided with an adjustable stop bearing against one end of the form, a form carrier, and a locking device mounted in the carrier arranged to engage the plate

and removably secure the form in position on the carrier, substantially as described.

7. A sole pressing machine, having, in combination, a form, a plate on the form, a form carrier and a locking device mounted in the carrier arranged to directly engage the plate and removably secure the plate upon the carrier, said locking device and plate having provision for permitting an adjustment of the form with relation to the carrier, substantially as described.

8. The combination with a form, for use in a sole pressing machine provided with a form carrier and having a locking device for locking the form on the carrier, of a plate adjustably secured to the form adapted for a sliding engagement with said form carrier and provided with means arranged to cooperate with said locking device to removably secure the form in position on said carrier, substantially as described.

9. A sole pressing machine having, in combination, a form, a form carrier, a plate adjustably secured to the form and adapted to have a sliding engagement with the carrier, and a locking device mounted in the carrier and arranged to engage the plate to removably secure the form in position on the carrier, substantially as described.

10. A sole pressing machine, having, in combination, a form, a form carrier, a plate secured to the form and adapted to have a sliding engagement with the carrier, and a locking pin mounted in the carrier arranged to engage the plate and removably secure the form in position on the carrier, said locking device and plate having provision for permitting an adjustment of the form with relation to the carrier.

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

ERASTUS E. WINKLEY.

Witnesses:

FRED O. FISH,

FARNUM F. DORSEY.