

No. 685,692.

Patented Oct. 29, 1901.

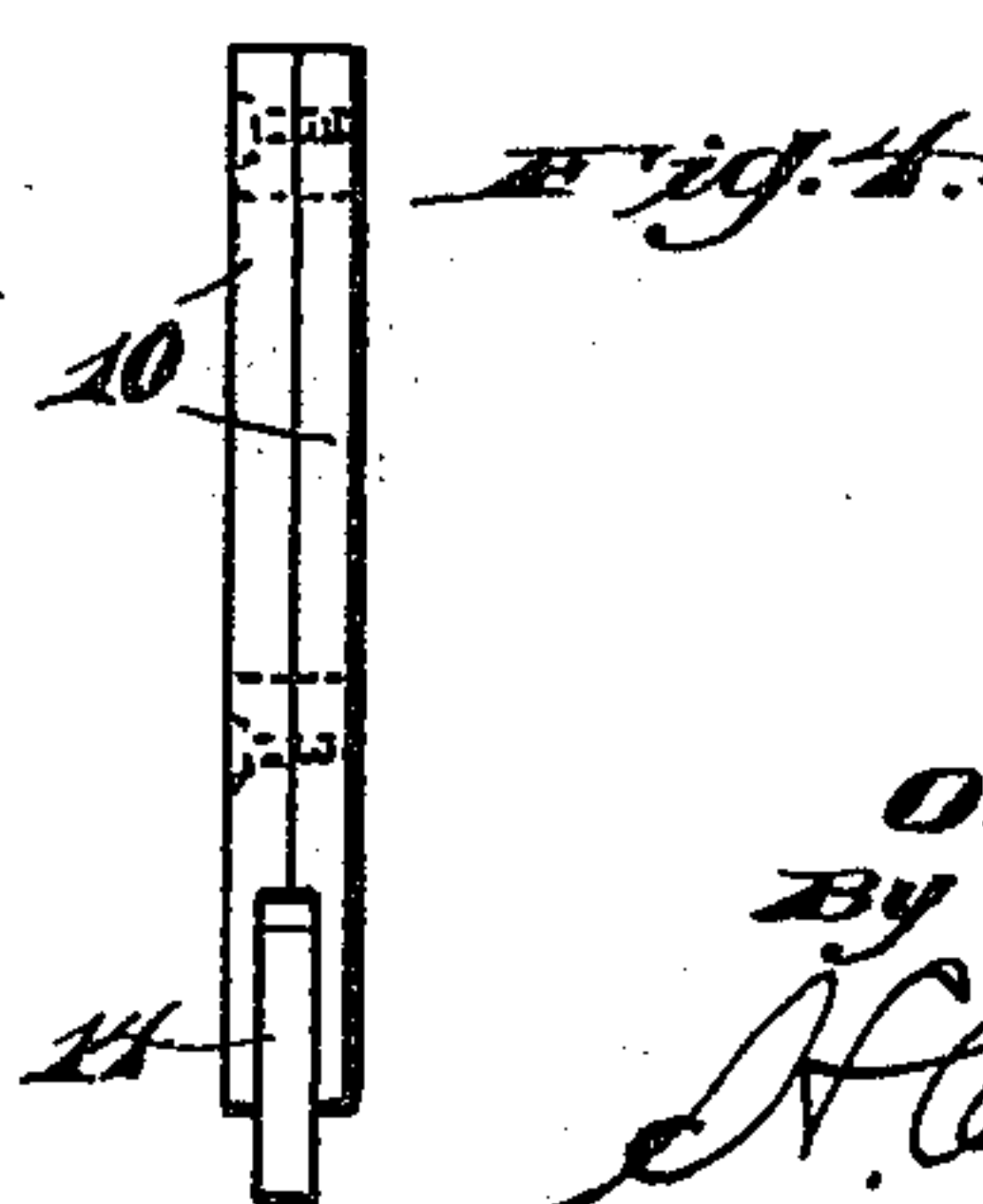
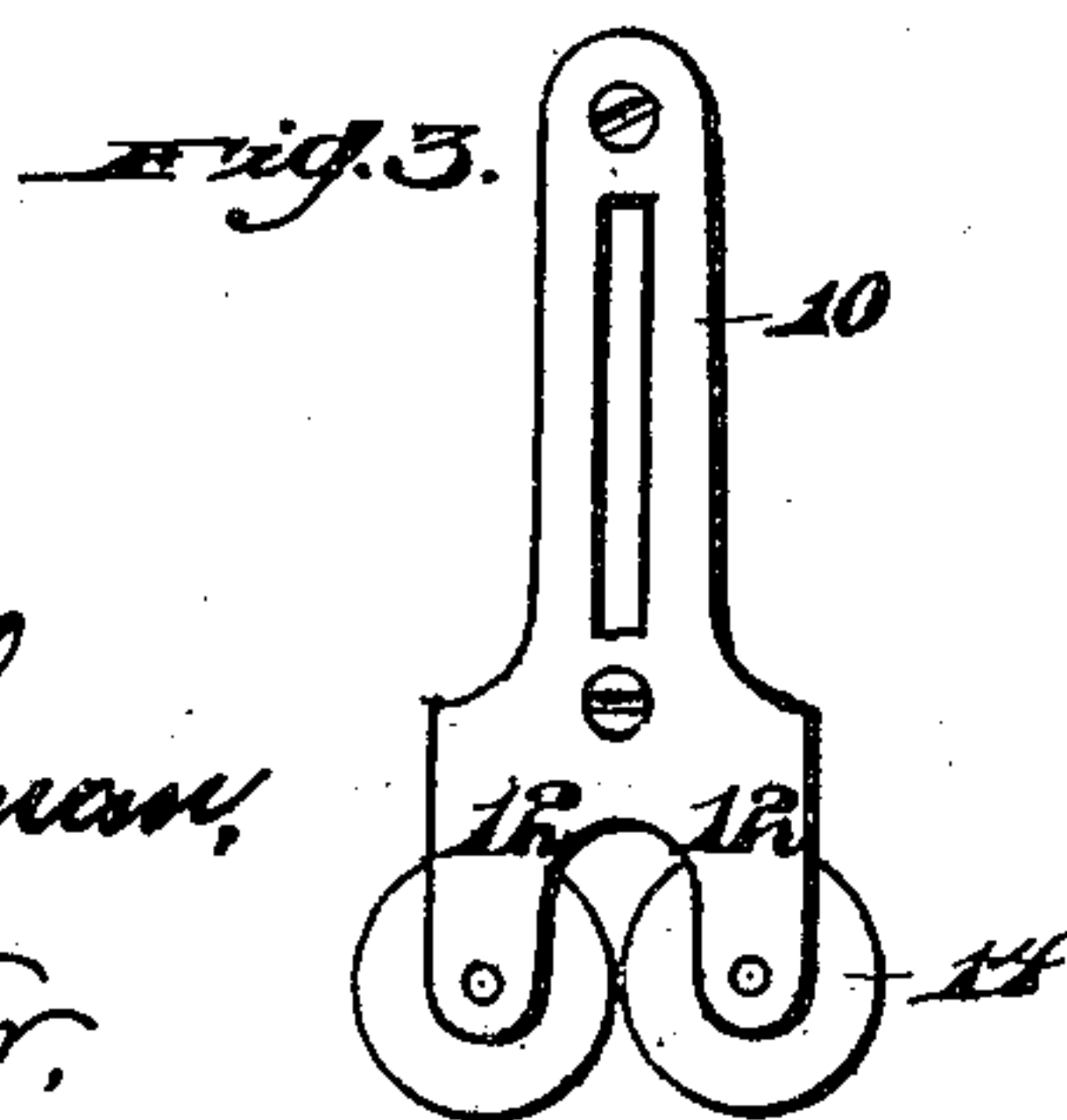
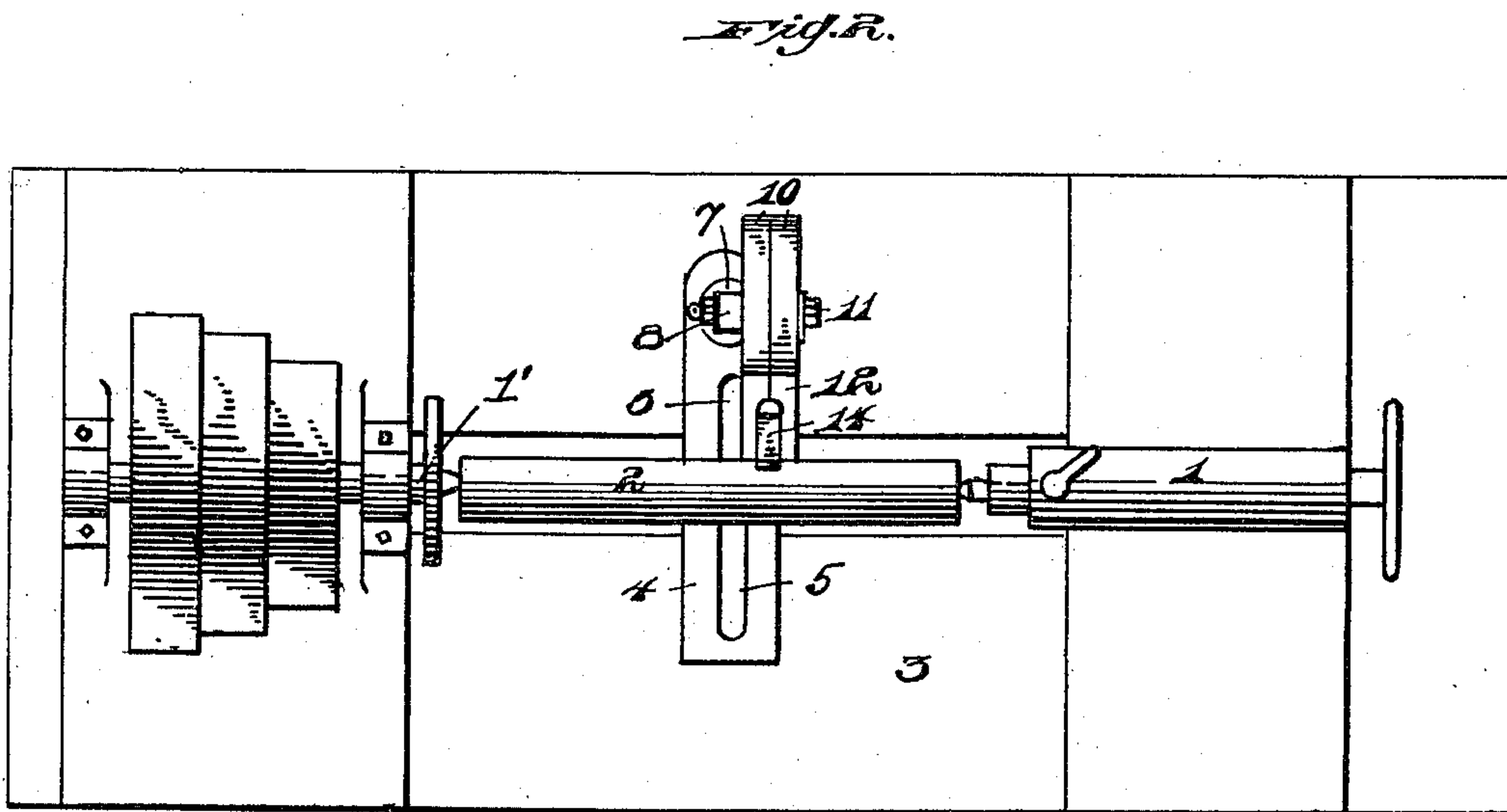
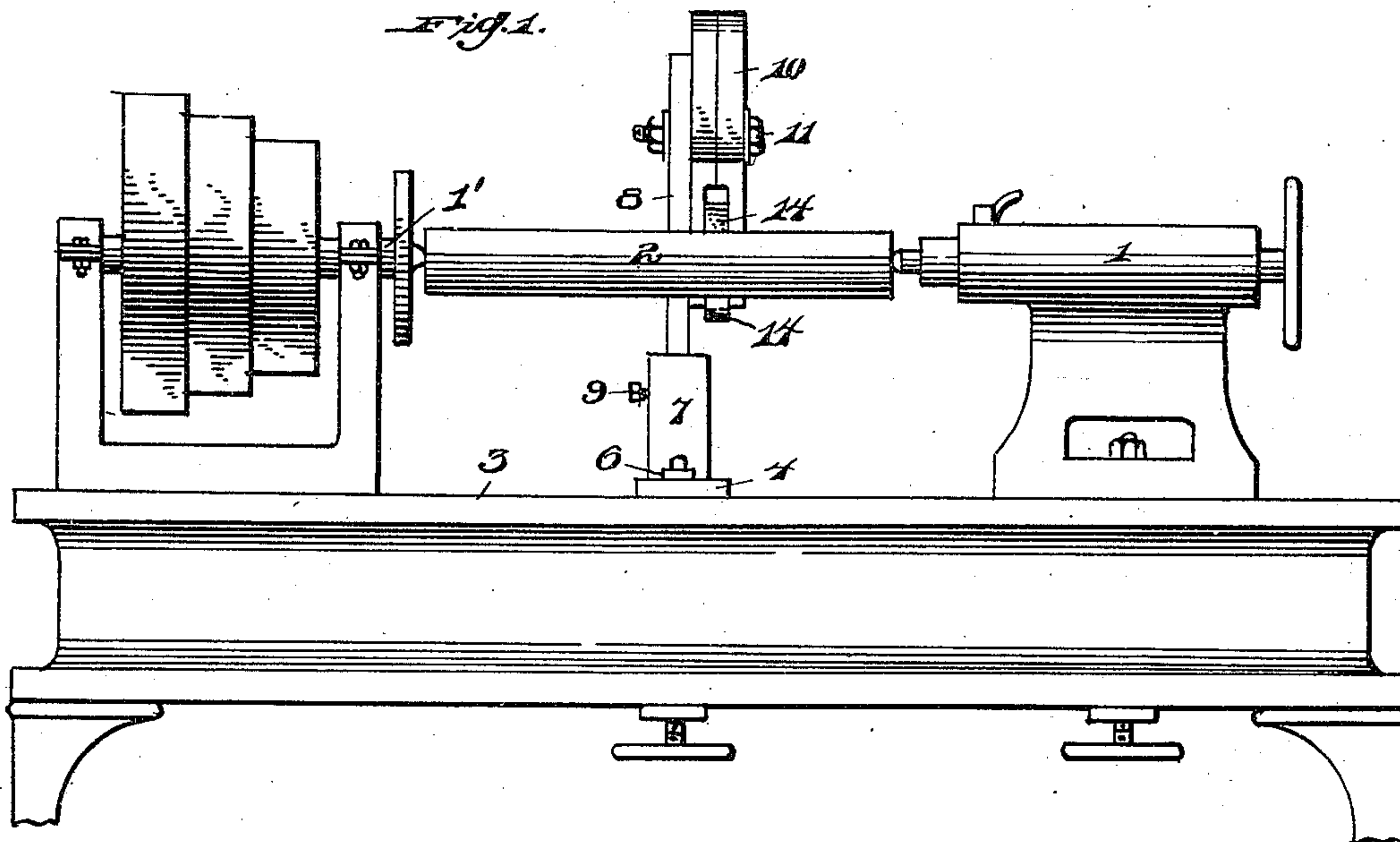
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CENTER STEADYING DEVICE FOR WOOD TURNING LATHES.

(Application filed May 10, 1901.)

(No Model.)

2 Sheets—Sheet 1.



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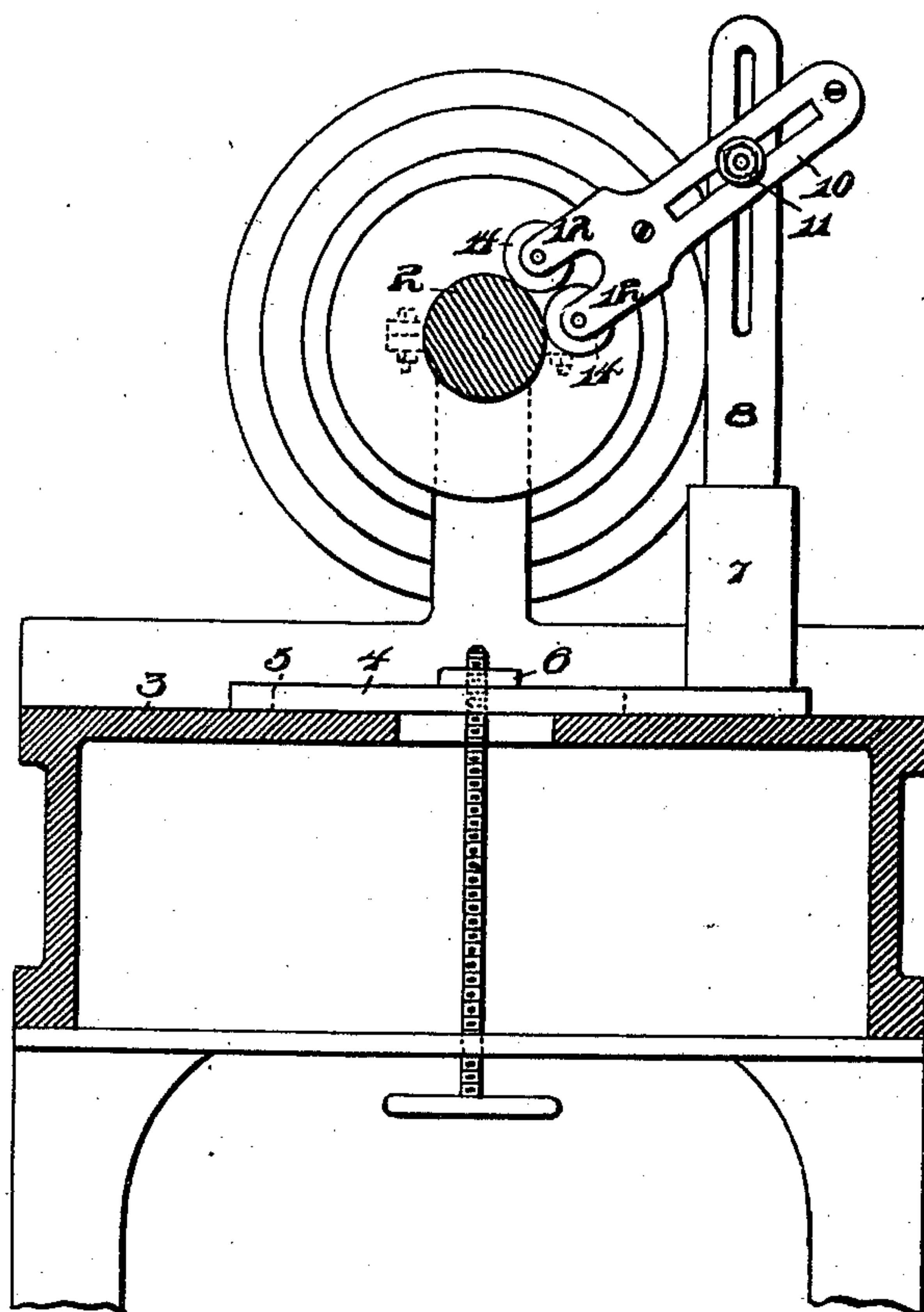
CENTER STEADYING DEVICE FOR WOOD TURNING LATHES.

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(No Model.)

2 Sheets—Sheet 2.

Fig. 5.



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UNITED STATES PATENT OFFICE.

ORLANDO D. RHODES, OF McKEESPORT, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO LOUIS N. MORGAN AND WILLIAM H. CROUCH, OF McKEESPORT, PENNSYLVANIA.

CENTER-STEADYING DEVICE FOR WOOD-TURNING LATHES.

SPECIFICATION forming part of Letters Patent No. 685,692, dated October 29, 1901.

Application filed May 10, 1901. Serial No. 59,650. (No model.)

To all whom it may concern:

Be it known that I, ORLANDO D. RHODES, a citizen of the United States of America, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Center-Steadying Devices for Wood-Turning Lathes, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in attachments for lathes, and relates more particularly to a center-steadying device for wood-turning lathes. It is a well-known fact when small posts or like articles are turned upon the lathe by applying a tool to the face of the post in order to produce certain results it often happens that when operating upon delicate posts they will spring. Especially is this true when the center of the length is reached. The present invention aims to overcome all such difficulties, and has for its object to provide a device whereby delicate work can be produced without the liability of springing the same in the center or producing an unevenness that would otherwise be caused by the operation.

A still further object of the herein-described invention is to construct a device of the above-described class that may be easily adjusted both laterally and vertically.

The invention has for a still further object to construct a device of this class that will be extremely simple in construction, strong, durable, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

Figure 1 is a side elevation of a lathe having my improvements attached thereto. Fig.

2 is a top plan view thereof. Fig. 3 is a plan view of the movable head. Fig. 4 is an end view thereof. Fig. 5 is a transverse sectional view of Fig. 2 to the right of the rest.

In the drawings the reference-numerals 1 1' indicate the tail-stock and head-stock, respectively, and 2 the post or piece of wood to be turned.

The reference-numeral 3 represents the bed of the lathe, upon which is slidably mounted a base 4, having formed therein a slot 5. From said slot extends a support 6, which is provided with any suitable fastening means. Upon the end of the base 4 is secured a standard 7, the latter being cylindrical in form and having formed therein a central opening to receive the adjustable head 8, the latter being retained in the desired position by means of a set-screw 9, arranged in the standard 7. Upon the said adjustable head 8 is slidably secured a slotted arm 10. A bolt 11 is also arranged in the head, extending through said slotted arm 10. The said arm also carries bearings 12, in which are rotatably mounted antifriction-rollers 14.

The operation of my improved device is as follows: The device being adjusted in proper position, the antifriction-rollers, bearing against the face of the post that is to be turned, will allow the latter to freely rotate; but when bearing upon the post on the opposite side of the antifriction-rollers the same will be retained in proper position and will not be allowed to spring in the center, thereby overcoming all difficulties that have heretofore existed in this particular class of inventions.

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

In a device of the character described, the combination with a movable base mounted

on the bed of a lathe with a post on one end
of said base, of a vertically-adjustable head
mounted in said post, a bolt carried by the
upper end of said post, a pair of longitudi-
5 nally-slotted plates, a single pair of outwardly-
extending arms made integral with said plates,
the ends of said arms being recessed on their
inner faces, a single pair of rollers secured
in said recesses, pins extending through the
10 said arms and rollers, the said rollers having

a slight space therebetween, and screws for
securing said plates together, the said bolt
adapted to operate in the said slot, substan-
tially as described.

In testimony whereof I affix my signature 15
in the presence of two witnesses.

ORLANDO D. RHODES.

Witnesses:

JOHN NOLAND,

E. E. POTTER.