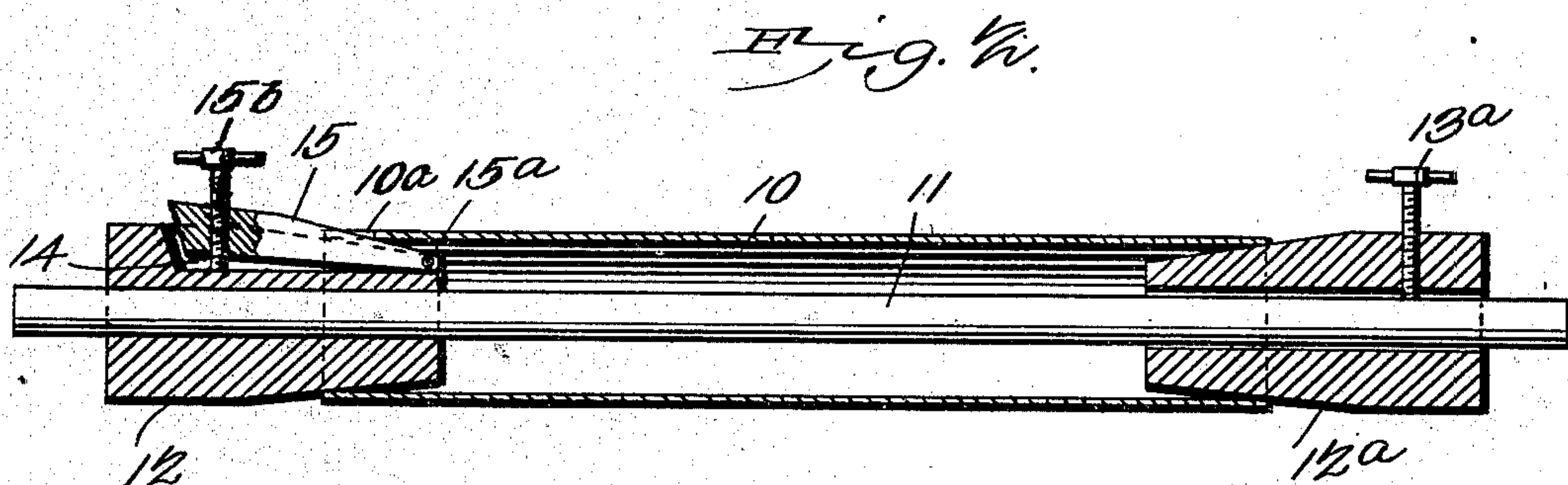
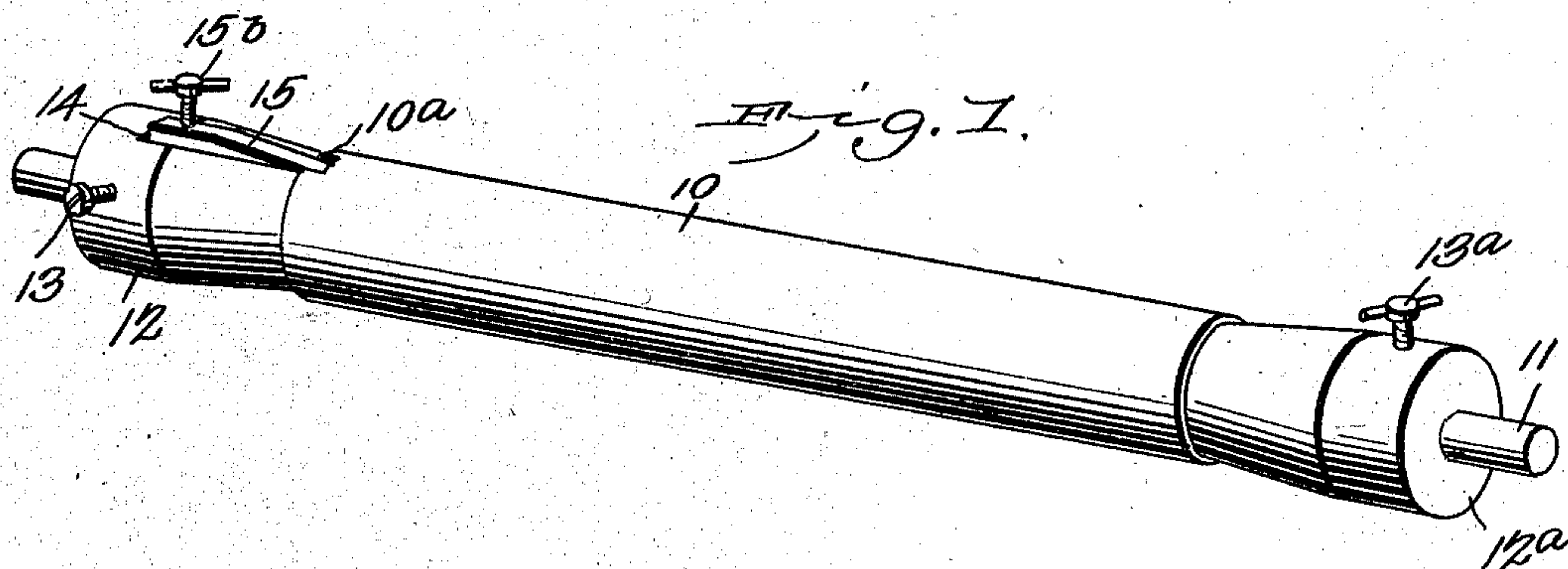


No. 723,081.

PATENTED MAR. 17, 1903.

C. E. TURNER.
PAPER ROLL HOLDER.
APPLICATION FILED JUNE 11, 1902.

NO MODEL.



Witnesses
E. J. Stewart
G. N. Woodward

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UNITED STATES PATENT OFFICE.

CHARLES EDWIN TURNER, OF MACON, GEORGIA.

PAPER-ROLL HOLDER.

SPECIFICATION forming part of Letters Patent No. 723,081, dated March 17, 1903.

Application filed June 11, 1902. Serial No. 111,222. (No model.)

To all whom it may concern:

Be it known that I, CHARLES EDWIN TURNER, a citizen of the United States, residing at Macon, in the county of Bibb and State of Georgia, have invented a new and useful Paper-Roll Holder, of which the following is a specification.

This invention relates to the holders for rolls of paper employed upon what are known as "web-printing presses," "paper-making machinery," or wherever it is necessary to lock the core or roll to the mandrel. The device may be employed with equal advantage at the paper-mill in connection with the presses or wherever winding or unwinding is necessary.

The invention consists in certain novel features of the construction whereby the roll of paper is adjustably supported upon the mandrel and adapted to be locked in position to be revolved therewith, as hereinafter shown and described, and specified in the claims.

In the drawings illustrative of the invention, Figure 1 is a perspective view of the device attached to the mandrel. Fig. 2 is a longitudinal sectional view of the same.

This device may be employed both in winding the paper upon the core and in unwinding it therefrom.

The rolls of paper employed upon web-printing presses and for analagous purposes are wound upon a tubular core, which is passed over a supporting-mandrel both in winding upon and unwinding from the core and is required to be nicely adjusted and securely supported in order to obtain the best results, and the present invention is designed to connect these cores and the roll of paper carried by them to the mandrels. The core above referred to is represented at 10 and consists in a section of tubing with a recess 10^a in one end.

The mandrel which forms a part of the printing-press or a separate frame adjacent thereto, or which forms a part of the winding-machines, is represented at 11 and is supported at its ends in a suitable framework, either upon the press or winding-machine or upon a separate framework adjacent thereto, as above noted; but as this means of supporting the mandrel is no part of the present invention it is not illustrated. Slidably disposed upon

the mandrel are two conical sleeves 12 12^a, adapted to be secured in position on the mandrel by set-screws 13 13^a, respectively. The sleeves are adapted to engage the ends of the core 10, as shown, and may be adjusted by the set-screws to fit cores of different lengths and sizes within the range of the inclined surfaces of the sleeves. Within the sleeve 12 is a longitudinal recess 14, in which the wedge-key 15 is pivoted by its lower end at 15^a and provided with an adjusting-screw 15^b at its outer larger end, the screw adapted to engage the body of the sleeve within the recess and adjust the wedge-key radially to the sleeve. The wedge-key is adapted to engage the recess 10^a in the core 10, as shown, so that the core is thereby locked in position upon the sleeve and prevented from rotating thereon. The sleeve 12 will generally be retained in its position by the set-screw 13 after it is properly adjusted, so that thereafter it will not be required to be adjusted except when a different size of paper is to be wound upon or unwound therefrom. The sleeve 12^a, on the other hand, will be removed from the mandrel every time a new roll of paper is to be placed in position. In placing the paper in position upon the mandrel the sleeve 12^a is removed and the empty core 10 also removed and a fresh core, with its attached roll of paper, placed upon the mandrel with the recess 10^a in engagement with the wedge-key 15 and the sleeve 12^a replaced and forced into the opposite end of the core and the thumb-screw 13^a set up to rigidly attach the sleeve to the mandrel. The wedge-key 15 is then adjusted by the thumb-screw 15^b until it tightly engages the core in the recess 10^a. The device is then ready for action. By this simple means the roll of paper is very firmly secured in position and rendered adjustable both as to length and size of core and without the necessity for employing any tools—such as wrenches, screw-drivers, or the like—as all the adjustments are made by the hand-operated thumb-screws 13^a 15^b.

The device may be adapted to different sizes of cores and for all purposes to which it may be applied.

Having thus described my invention, what I claim is—

1. The combination of oppositely-disposed

core-supporting members, a key pivotally mounted on the core-engaging surface of one of said members, means carried by said key for adjusting its free end radially in relation
5 to its supporting member, and a core disposed between said core-supporting members and engaged thereby and by said key.

2. The combination of core-supporting members, a wedge-shaped key pivoted at its
10 reduced end to one of said members and adapted to swing outwardly therefrom, means for regulating the pivotal movement of said key, and a tubular core disposed between said core-supporting members and engaged on its in-
15 ner face by said members and by said key.

3. The combination of reversely-tapered core-supporting members, a key pivotally connected at one end to the tapered end of one of said members, an adjusting-screw carried by said key at its free end and adapted to ad- 20 just it radially to said member, and a tubular core disposed between said tapered members and engaged thereby and by said key.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 25 the presence of two witnesses.

CHAS. EDWIN TURNER.

Witnesses:

ROBT. JOHNSTONE BRERETON,
PERCY D. GRIFFITH.