

No. 844,673.

PATENTED FEB. 19, 1907.

R. J. GREENWAY, JR.
ATTACHMENT FOR INK FOUNTAINS OF PRINTING PRESSES.
APPLICATION FILED OCT. 27, 1906.

Fig. 1.

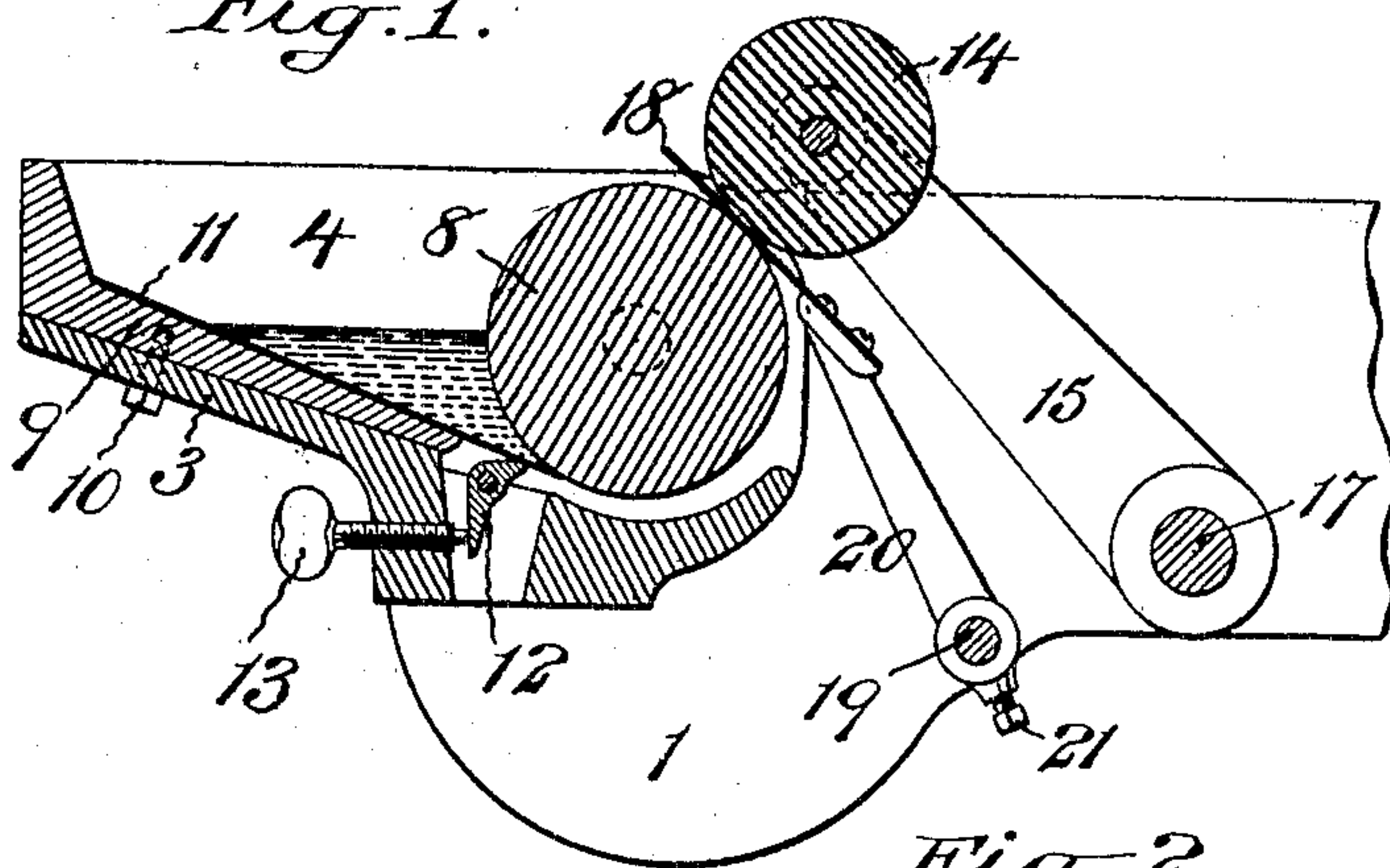


Fig. 3.

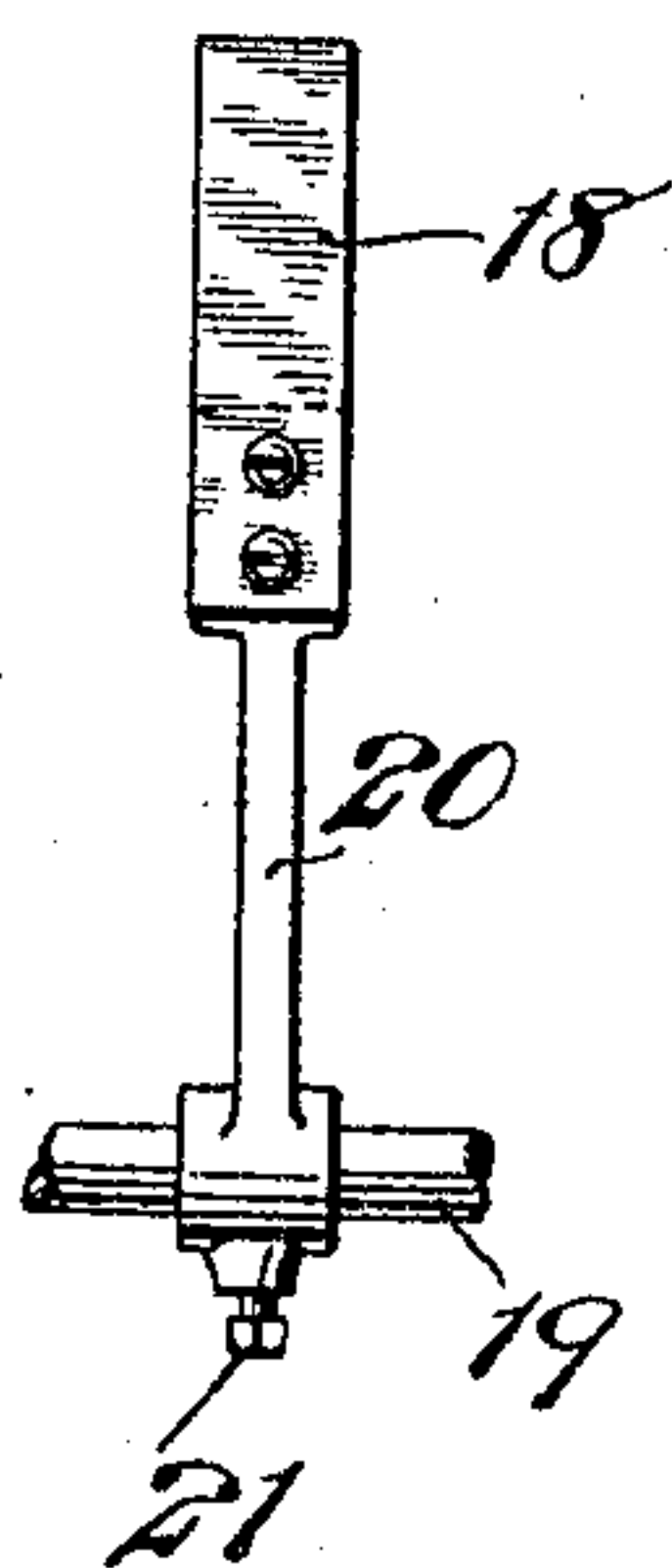
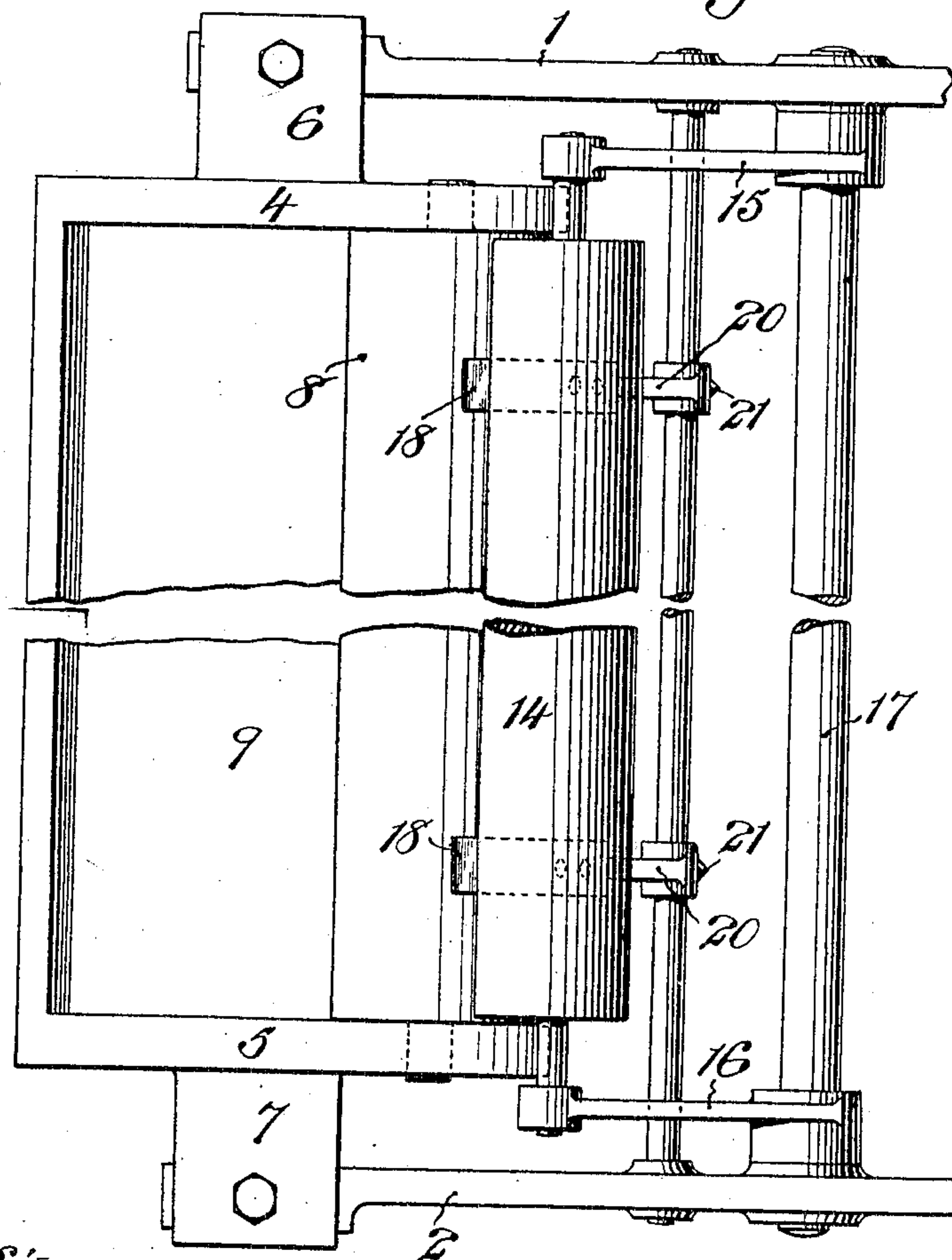


Fig. 2.



Witnesses:-
F. George Barry,
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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR INK-FOUNTAINS OF PRINTING-PRESSES.

No. 844,673.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed October 27, 1905. Serial No. 284,617.

To all whom it may concern:

Be it known that I, RICHARD J. GREENWAY, Jr., a citizen of the United States, and a resident of Westerly, in the county of Washington and State of Rhode Island, have invented a new and useful Improvement in Attachments for Ink-Fountains of Printing-Presses, of which the following is a specification.

This invention consists in an attachment for the ink-fountains of printing-presses, and has more particularly for its object to provide a device designed to prevent the supply of ink on the fountain-roll from being transferred at a predetermined point to the ductor-roll.

A further object is to provide a device of the above character which may be adjusted to any desired point along the fountain-roll without requiring a specially-constructed fountain and without disturbing the set or adjustment of the regular fountain-screws.

In the accompanying drawings, Figure 1 is a detail vertical section through an ink-fountain and its adjacent parts with one of the attachments in position with respect to the same. Fig. 2 is a partial plan view showing two of the attachments in position for use; and Fig. 3 is a detail plan view of one of the attachments.

The side frames of the press are denoted by 1 and 2, between which is supported the ink-fountain. The fountain proper consists of a bottom 3 and uprising ends 4 and 5, from which project plates 6 and 7, attached to the side frames 1 and 2. The fountain-roll (denoted by 8) is rotatably mounted in the ends 4 and 5 of the fountain-frame. A false bottom 9 is fitted to slide between the ends 4 and 5 and is held in position on the bottom 3 by screws 10. The blade 11 is secured to the false bottom 9 with its forward edge normally spaced a slight distance away from the fountain-roll 8. A rocking plate 12 engages the under side of the forward edge of the blade 11 and is in turn engaged by a series of set-screws 13, by means of which the front edge of the blade may be adjusted so as to permit the required amount of ink to be deposited upon the surface of the fountain-roll.

The ductor-roll is denoted by 14, and it is mounted, as is usual, in the free ends of arms 15 and 16, carried by a shaft 17, the parts be-

ing so arranged that the ductor-roll may be brought into engagement with the fountain-roll and then into engagement with the form-inking apparatus (not shown herein) in the well-known manner.

It has heretofore been necessary where open spaces or margins occurred in the printing-form, at which little or no ink was required, to adjust the blade in the fountain with the adjusting-screws unevenly, so as to cut off or stop the flow of ink onto certain parts of the fountain-roll. In doing this an undue strain has frequently been brought onto the blade sufficient to spring and often at times to buckle and thereby ruining the blade. The object of this invention is to provide a device which will effectually prevent the supply of ink on the fountain-roll from being transferred to the ductor-roll at any point thereon without changing the adjustment of the blade at different points along the same, the blade being allowed to remain in its proper adjustment with respect to the fountain-roll at all times.

The attachment comprises a thin strip of suitable material 18—such, for instance, as sheet metal—which strip is supported from a cross-rod 19, in the present instance, by providing an arm 20, adjustably secured on the rod 19, to which arm the strip 18 is fastened. This strip may be inserted between the fountain-roll and ductor-roll at any desired point along the same, a set-screw 21 being provided for this purpose, which set-screw is carried by the arm 20 and is arranged to impinge against the cross-rod 19. These strips 18 may be made of various widths to correspond with the width of the ductor-roll which it is desired to protect from the deposit of ink, and, if so desired, several of these strips may be located side by side at any one point along the fountain-roll for protecting a greater portion of the ductor-roll from the transfer of ink thereon.

When not in use, the strips may be adjusted out of the way to one side of the inking device.

The strip 18 may be held against the fountain-roll under the required amount of tension by the proper adjustment of the arm 20 on the cross-rod 19.

What I claim as my invention is—

1. A fountain-roll, means for supplying ink

- thereto, a ductor-roll, a cross-rod, a strip of suitable material carried by the cross-rod and interposed between the two rolls to prevent the transfer of ink from the fountain-roll to the ductor-roll at a predetermined point and a device carried by the said strip for adjustably securing the strip rotatively to hold it against the fountain-roll under the required tension.
- 10 2. A fountain-roll, means for supplying ink thereto, a ductor-roll, a cross-rod, an arm carried by the cross-rod, a strip of suitable material carried by the arm and interposed between the two rolls to prevent the transfer of ink from the fountain-roll to the ductor-roll at a predetermined point and a device carried by the arm for adjustably securing the strip rotatively to hold it against the fountain-roll under the required tension.
- 15 3. A fountain-roll, means for supplying ink thereto, a ductor-roll, a cross-rod, an arm carried by the cross-rod, a strip of suitable material carried by the arm and interposed

between the two rolls to prevent the transfer of ink from the fountain-roll to the ductor-roll at a predetermined point and a device carried by the arm for adjustably securing the strip rotatively and laterally. 25

4. A fountain-roll, means for supplying ink thereto, a ductor-roll, a cross-rod, an arm carried by the cross-rod, a strip of suitable material carried by the arm and interposed between the two rolls to prevent the transfer of ink from the fountain-roll to the ductor-roll at a predetermined point, and a set-screw carried by the arm for adjustably securing the strip rotatively and laterally. 30 35

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 17th day of October, 1905. 40

RICHARD J. GREENWAY, JR.

Witnesses:

A. R. STILLMAN,
G. BURDICK.