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PATENTED MAR. 6, 1906.

R. J. GREENWAY, JR.
ATTACHMENT FOR INK FOUNTAINS OF PRINTING PRESSES.
APPLICATION FILED DEC. 28, 1904.

Fig. 1.

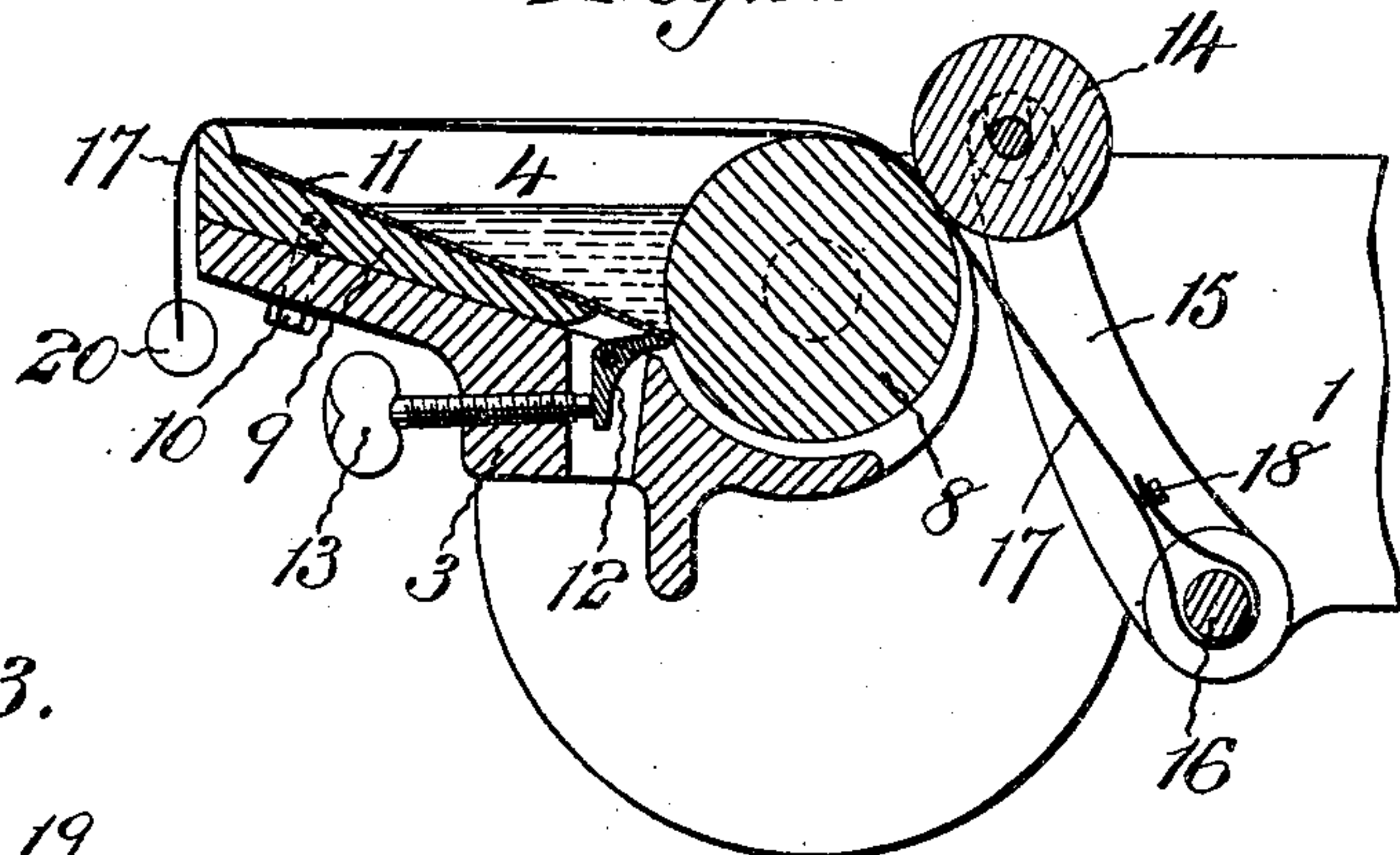


Fig. 3.

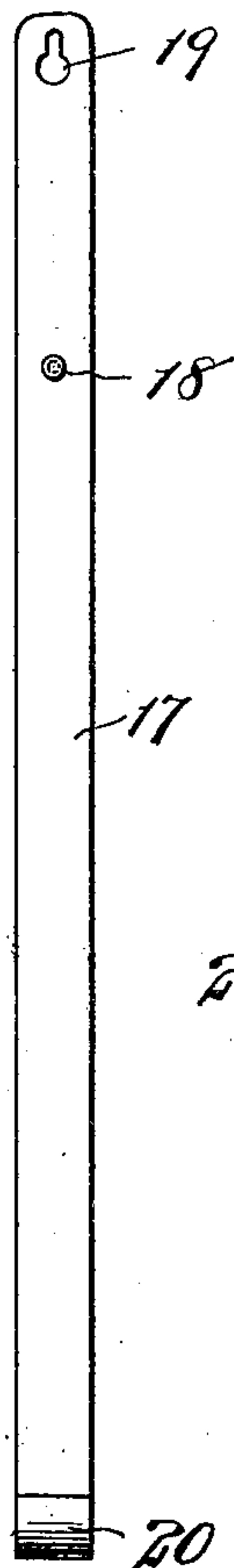
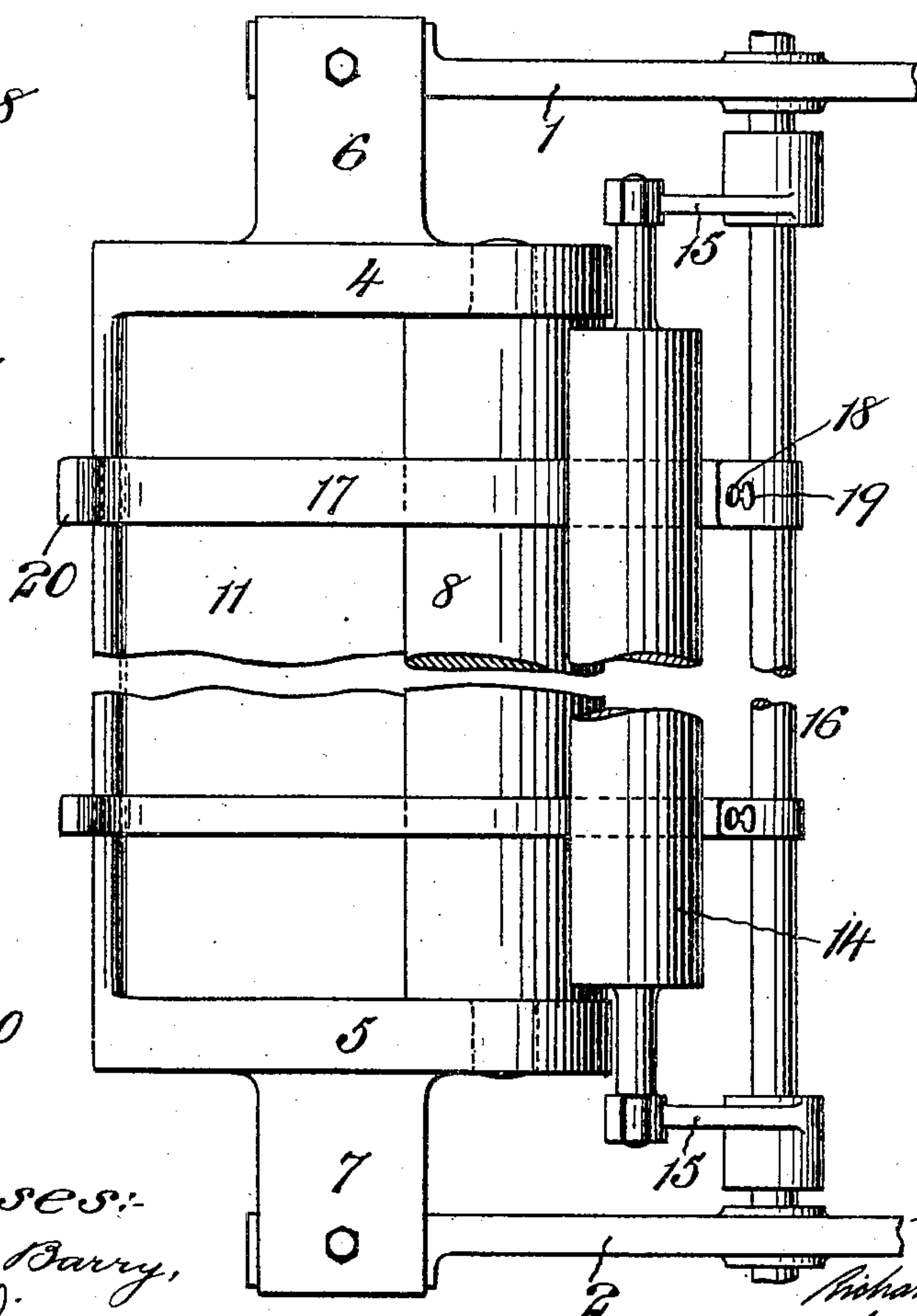


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

RICHARD J. GREENWAY, JR., OF WESTERLY, RHODE ISLAND, ASSIGNOR
TO C. B. COTTRELL & SONS COMPANY, OF NEW YORK, N. Y., A COR-
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ATTACHMENT FOR INK-FOUNTAINS OF PRINTING-PRESSES.

No. 814,037.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed December 28, 1904. Serial No. 238,562.

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 Wash-
5 ington and State of Rhode Island, have in-
vented a new and useful Improvement in
Attachments for Ink-Fountains of Printing-
Presses, of which the following is a specifica-
tion.

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

A further object of this invention is to pro-
vide a device which may be removably at-
tached in position between the fountain-roll
and ductor-roll at any desired point along
20 the same without requiring a specially-con-
structed fountain and without disturbing the
set or adjustment of the regular fountain-
screws.

A practical embodiment of my invention
25 is represented in the accompanying draw-
ings, in which—

Figure 1 is a detail vertical section through
an ink-fountain and its adjacent parts with
one of the attachments in position with re-
30 spect to the same. Fig. 2 is a partial plan
view showing two of the attachments in po-
sition for use, and Fig. 3 is a detail plan view
of one of the attachments.

The side frames of the press are denoted by
35 1 and 2, between which is supported the ink-
fountain. A fountain proper comprises a
bottom 3 and uprising ends 4 and 5, from
which project plates 6 7, attached to the side
frames 1 2. The fountain-roll, which is de-
40 noted by 1, is rotatably mounted in the ends
4 5 of the fountain-frame. A false bottom 9
is fitted to slide between the ends 4 5 and is
held in position on the bottom 3 by screws
10. The blade 11 is secured to the false bot-
45 tom 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
50 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 sur-
face of the fountain-roll.

The ductor-roll is denoted by 14, and it is
mounted, as is usual, in the free ends of arms 55
15, carried by a shaft 16, the parts being so
arranged that the ductor-roll 14 may be
brought into engagement with the fountain-
roll 8 and then into engagement with the
form-inking apparatus (not shown herein) in 60
the well-known manner.

It has heretofore been necessary where
open spaces or margins occurred in the print-
ing-form at which little or no ink was re-
quired to adjust the blade in the fountain 65
with the adjusting-screws 13 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 been brought onto the
blade sufficient to spring and often at times 70
to buckle, and thereby ruining it. The object
of this present invention is to provide a de-
vice which will effectually prevent the sup-
ply of ink on the fountain-roll from being
transferred to the ductor-roll at any point 75
thereon without changing the adjustment of
the blade at different points along the same,
the blade being allowed to remain in its ad-
justment with respect to its fountain-roll.
My attachment comprises a thin strip of suit- 80
able material 17—such, for instance, as sheet
metal—which strip may be inserted between
the fountain-roll and ductor-roll. One end
of this strip is removably secured to some
suitable support—such, for instance, as the 85
ductor-roll shaft 16. The means which I
have shown for attaching this strip comprises
a button 18 and buttonhole 19, spaced a suf-
ficient distance apart along the strip to per-
mit the end of the strip to be wrapped around 90
the ductor-roll shaft and secured. I have
provided means for holding the strip under
tension, which means in the present instance
consists of a weight 20, carried by the free
end of the strip, the strip being shown of suf- 95
ficient length to permit the free end of the
same to pass over the top of the fountain and
depend therefrom. It is to be understood
that I may provide other means than that
herein shown for holding the strip under ten- 100
sion. These strips 17 may be made of va-
rious widths to correspond to the width of

the space on the ductor-roll which it is desired to protect from the deposit of ink, and it is to be noted that these strips may be adjusted laterally to any desired point along the roll.

It will be seen that by the use of these attachments the supply of ink on the fountain-roll is prevented from being transferred to the ductor-roll at those points where the attachments are interposed between the two rolls without interfering with the adjustment of the fountain-blade. This will permit a more even distribution of the film of ink on the fountain-roll and consequent transfer of the same to the ductor-roll, where it is to be carried to the form-inking apparatus. (Not shown herein.)

While I have shown the devices as attached to the ductor-roll shaft, it is to be understood that they may be attached to any other point which may be found convenient.

What I claim as my invention is—

1. A fountain-roll, means for supplying ink thereto, a ductor-roll, a strip of suitable material interposed between the two rolls to prevent transferring ink from the fountain-roll to the ductor-roll at a predetermined point, a suitable support upon one side of the rolls, means for securing one end of the strip to the support and means engaging the free end of the strip upon the other side of the rolls for holding it under tension.

2. A fountain-roll, means for supplying ink thereto, a ductor-roll, a strip of suitable material interposed between the two rolls to prevent transferring ink from the fountain-roll to the ductor-roll at a predetermined point, a suitable support upon one side of the rolls, means for removably securing one end of the strip to the said support and means engaging the free end of the strip upon the

other side of the rolls for holding it under tension.

3. A fountain-roll, means for supplying ink thereto, a ductor-roll, a strip of suitable material interposed between the two rolls to prevent transferring ink from the fountain-roll to the ductor-roll at a predetermined point, a suitable support upon one side of the rolls, means for securing one end of the strip to the said support and a weight carried by the free end of the strip upon the other side of the rolls for holding the strip under tension.

4. A fountain-roll, means for supplying ink thereto, a ductor-roll, a strip of suitable material interposed between the two rolls, a suitable support upon one side of the rolls, means for securing one end of the strip to the said support and means engaging the free end of the strip upon the other side of the rolls for holding it under tension, the said strip being capable of adjustment along the rolls to prevent transferring ink from the fountain-roll to the ductor-roll at any desired point thereon.

5. A fountain-roll, means for supplying ink thereto, a ductor-roll, its shaft and a strip of suitable material attached to the shaft and interposed between the two rolls to prevent transferring ink from the fountain-roll to the ductor-roll at a predetermined point and means for holding the strip under tension.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 22d day of December, A. D. 1904.

RICHARD J. GREENWAY, JUNIOR.

Witnesses:

H. M. BARBER,
A. R. STILLMAN.