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PATENTED JAN. 29, 1907.

M. McMAHON.

PRINTING ATTACHMENT FOR PAPER ROLL HOLDERS AND CUTTERS.

APPLICATION FILED FEB. 26, 1906.

Fig. 1.

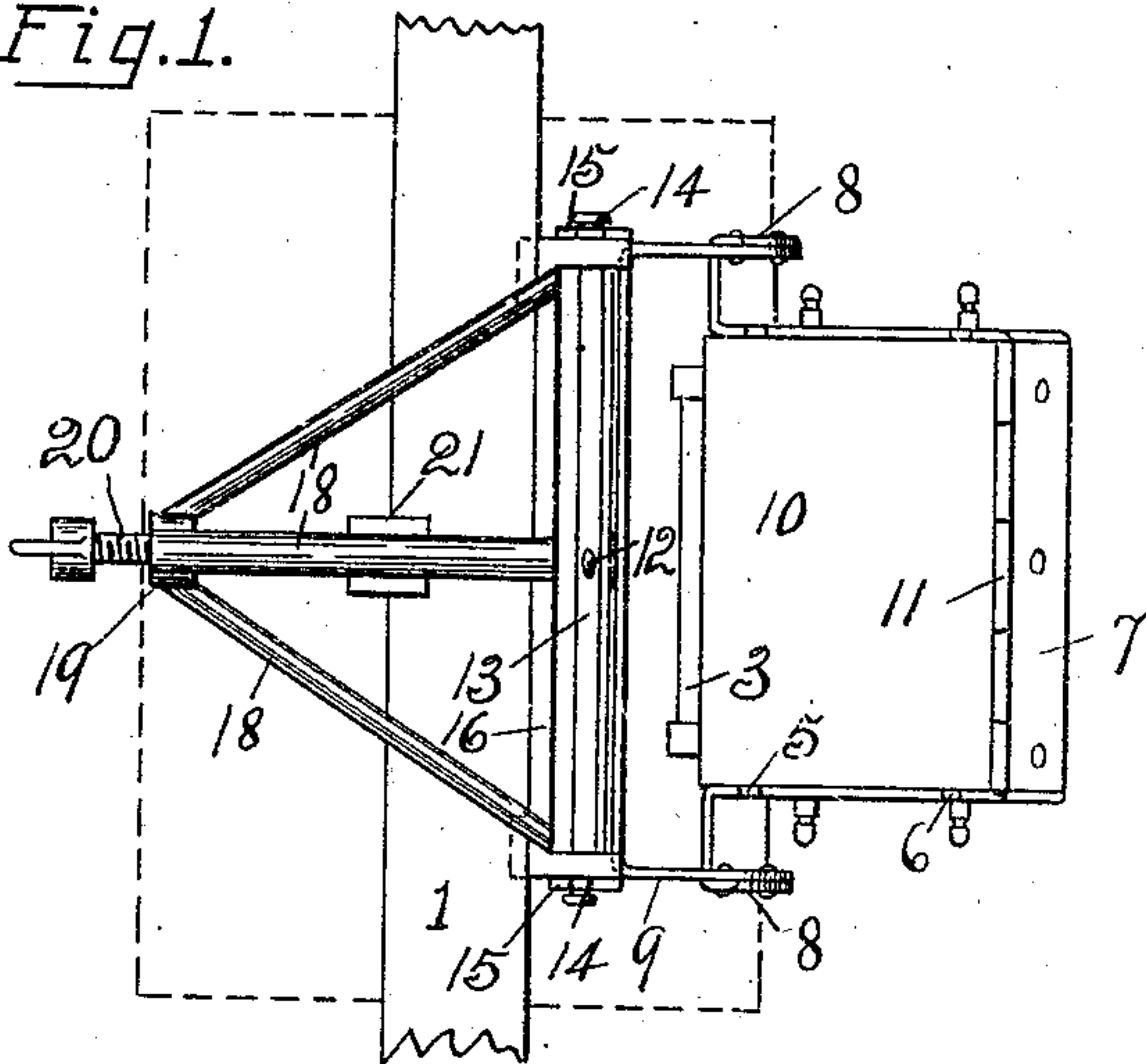


Fig. 3.

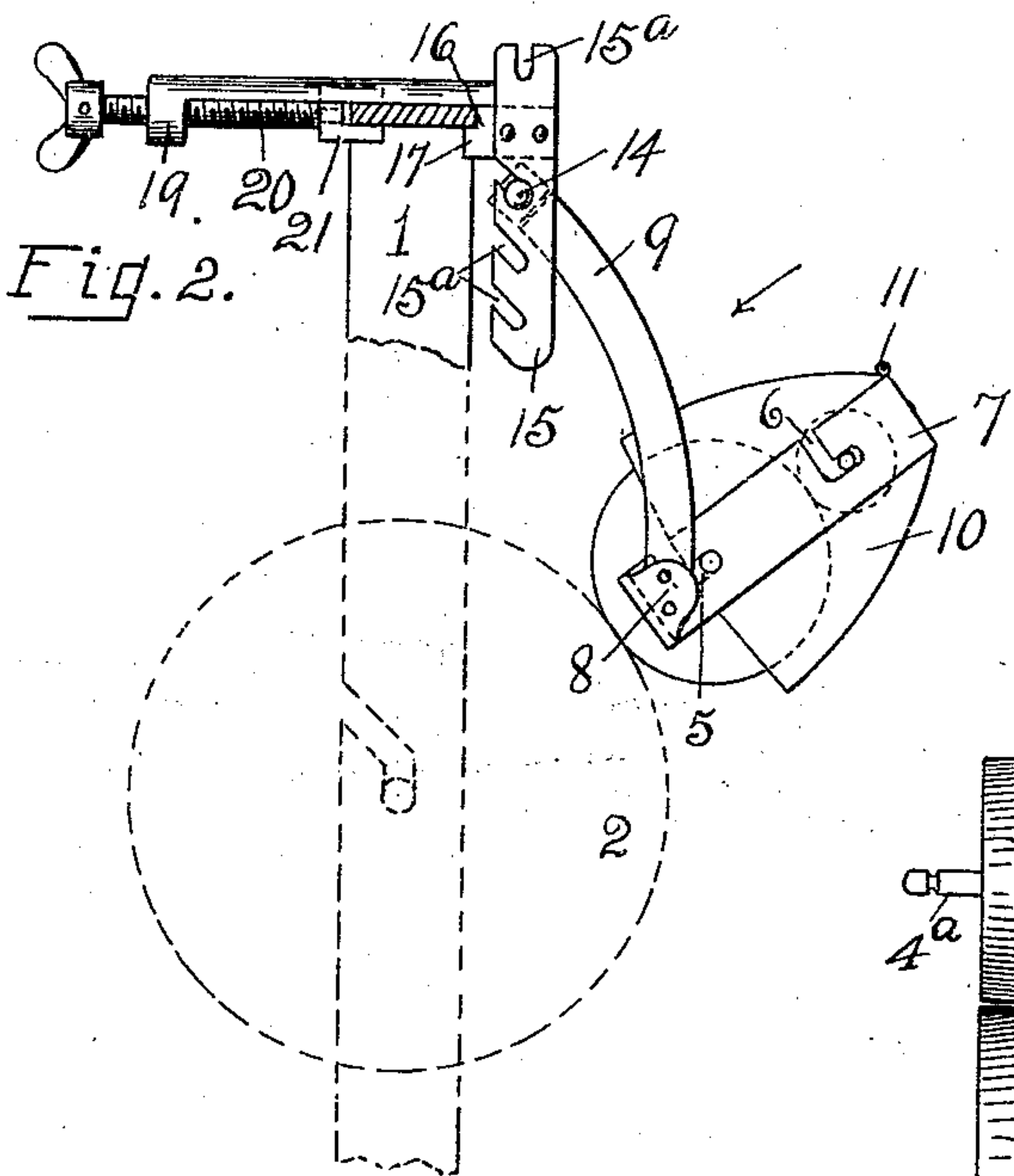
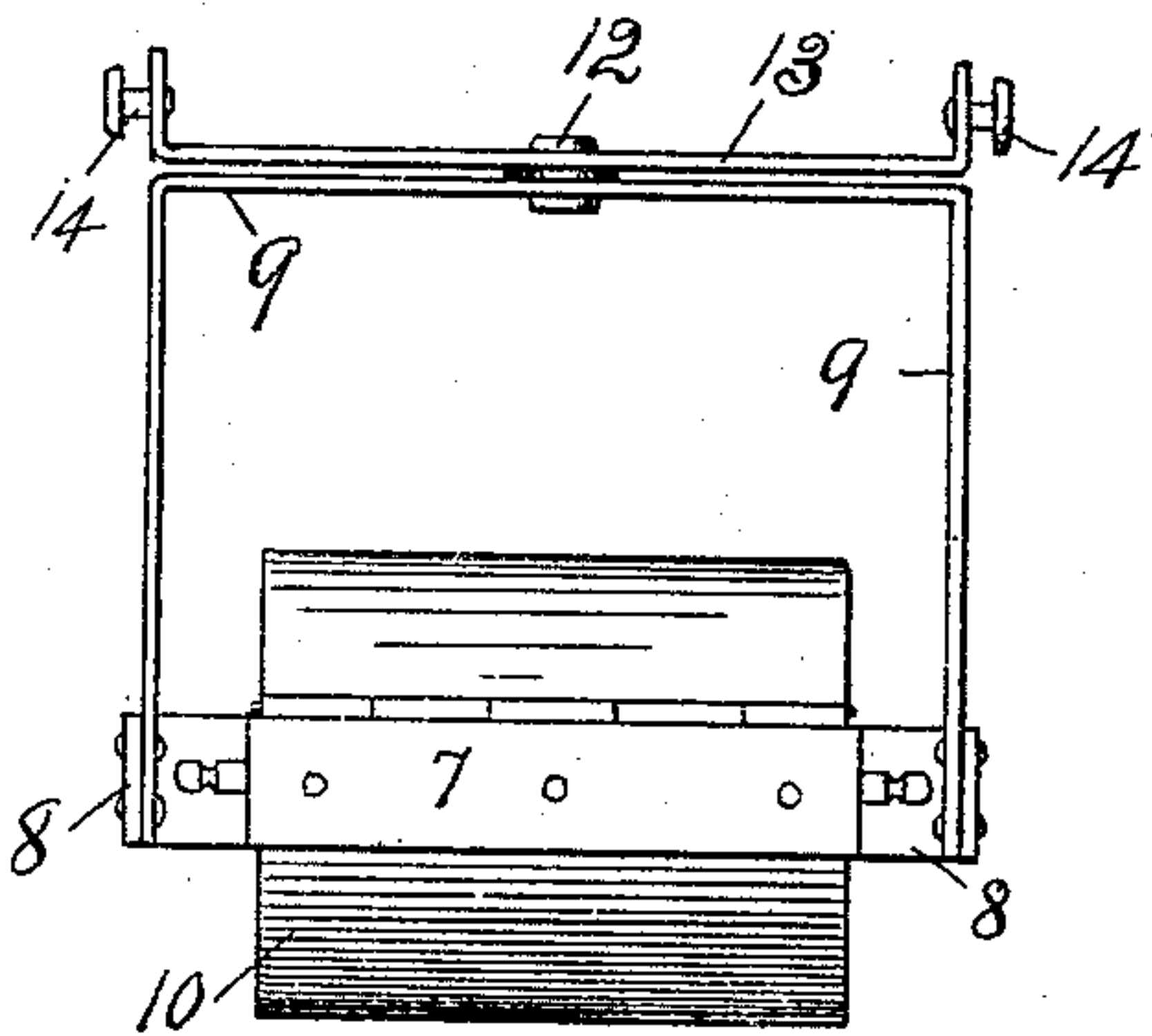
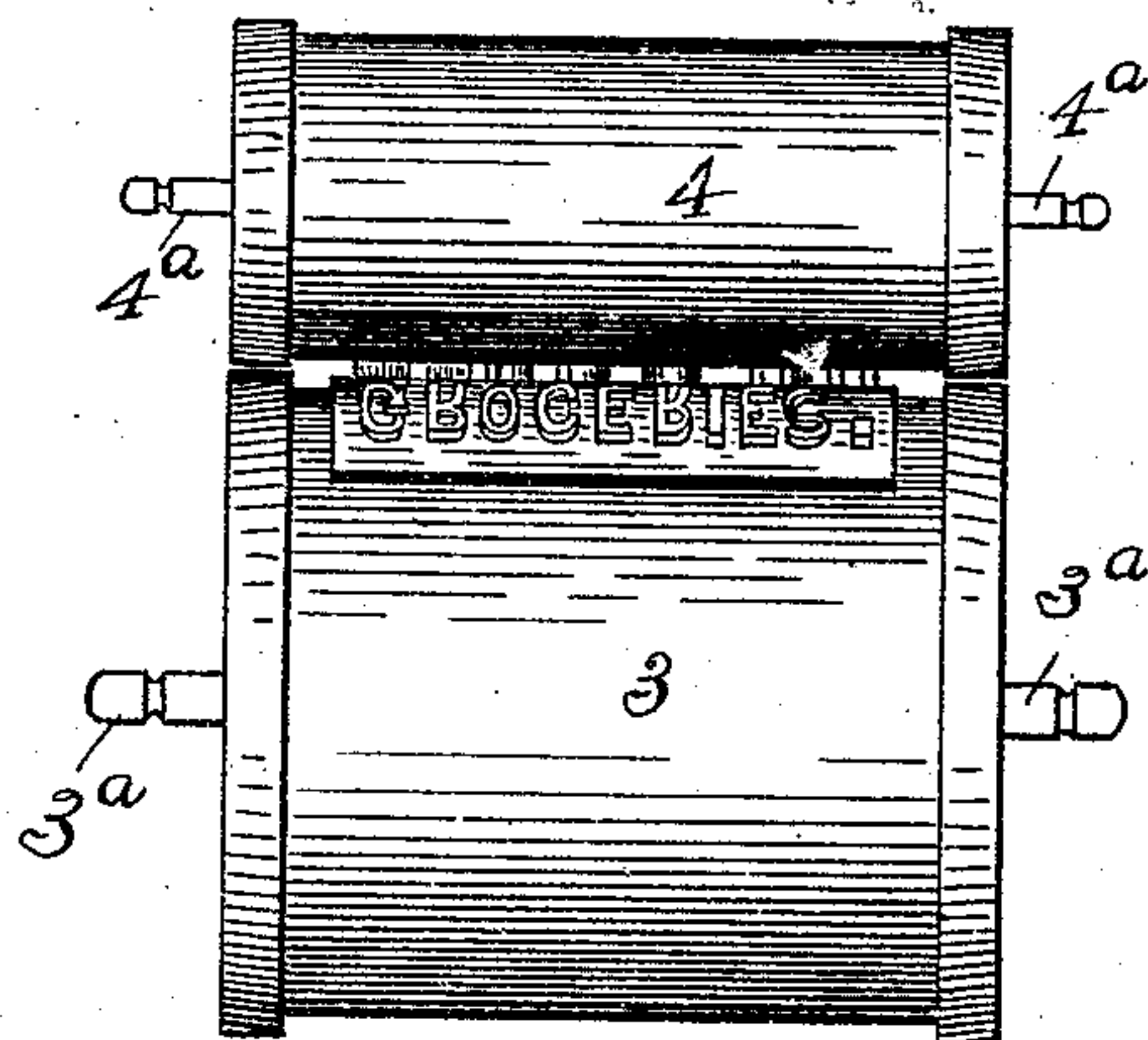


Fig. 4.



WITNESSES:

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PRINTING ATTACHMENT FOR PAPER-ROLL HOLDERS AND CUTTERS.

No. 842,486.

Specification of Letters Patent.

Patented Jan. 29, 1907.

Application filed February 26, 1906. Serial No. 302,953.

To all whom it may concern:

Be it known that I, MICHAEL McMAHON, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Printing Attachments for Paper-Roll Holders and Cutters; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to paper-roll holders and cutters, and has especial reference to improvements in printing attachments for use in conjunction with such apparatus, whereby the paper as it is unrolled is equidistantly stamped with the business-card or other desired designation or advertising matter of the seller of the goods about which it is to be wrapped.

An object of my invention is the provision of a printing attachment of this class which is adapted to be removably attached to any of the ordinary types of paper-roll-holder frames and capable of having adjustment longitudinally of the paper-roll to change the position of the impression thereon and which is also capable of being adjusted transversely of the paper-roll to suit the size or position of such roll on different styles of holders.

To these ends my invention consists of certain novel features of construction, combination, and arrangement of the parts, as is hereinafter fully described and which is illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of the printing attachment comprising the invention, together with a portion of a paper-roll-holder frame to which it is adjustably attached. Fig. 2 is a side elevation thereof as it appears attached to a paper-roll-holder frame. Fig. 3 is a view of the printing attachment proper and its suspending-arms looking in the direction of the arrow in Fig. 2, and Fig. 4 is an elevation of the inking and printing cylinders in coacting relation.

Referring to the drawings, 1 represents portions of a paper-roll-holder frame, and 2 a paper-roll carried thereby, which roll is shown in dotted lines. The printing attachment embodying the features of my present invention comprises the printing-cylinder 3 and inking-

cylinder 4, which are adapted to circumferentially coact and have their bearing-trunnions or stub-shafts 3^a and 4^a removably mounted in L-shaped slots 5 and 6, respectively, which slots are provided in the sides of the inverted-U-shaped carrying-frame 7. This frame has its legs or uprights shown as terminating at their lower ends in upwardly-extending L-shaped arms 8, which rigidly connect at their free ends with the ends or terminals of the arms of the U-shaped suspending member 9. The slots 5 and 6 in the frame 7 are both disposed inwardly and upwardly from what may be termed the "upper" edge of the frame uprights or legs, as shown in Fig. 2, and the trunnions or stub-shafts 3^a and 4^a are normally disposed at the upper ends of the slots, due to the printing-cylinder being held up or supported by its contact with the paper-roll and the frame 7 supported relative to said cylinder by the trunnions thereof. To remove the cylinders 3 and 4 from their bearing-slots, the frame 7 is raised, thus permitting the trunnions of the cylinder, to move to the point of meeting of the angled portions of the slots, at which position either cylinder may be removed from the frame through the transverse portions of its slots. With this construction it is found to be unnecessary to yieldingly connect the two cylinders by securing coiled contraction-springs to their trunnions, as is usually done in this class of printing attachment.

A hood 10 is secured to the frame 7 and partially incloses the cylinders 3 and 4. The upper side of this hood is hinged, as shown at 11, to permit a removal of the cylinders from their bearings.

The U-shaped suspending member 9 is centrally pivoted, as at 12, to a cross-bar 13, which has its ends provided with journals or trunnions 14 for seating loosely in bearing notches or sockets 15^a, provided in the vertically-disposed arms 15. These arms are carried in spaced relation by a bar or member 16, which forms the relatively fixed jaw or clamp of the means by which my printing attachment is adjustably secured to the frame 1 of the paper-roll holder. This bar or member 16 is shown as being formed at its ends with lips 17, which engage the under surface of the top or cross piece of the frame 1 and as having the arms 18 projecting rearwardly from its upper part over the top frame-piece and in converging relation. These arms merge at a point on the opposite

side of the top frame-piece to the member 16 and are formed at such point with a threaded bearing 19, carrying the screw 20, to the inner end of which screw is secured the movable jaw or clamping member 21 for contact with the side or edge of the frame-piece 1 in opposition to the side or edge thereof engaged by the member or jaw 16. The two jaws or clamping members 16 and 21 are preferably fashioned so that when slightly loosened a longitudinal adjustment of the clamping means is rendered possible without enabling it to be removed from the holder-frame.

It will thus be apparent that the printing attachment may be easily and quickly adjusted longitudinally of the paper-roll 2 to suit the desired position of making the impression thereon, that it may readily be adjusted vertically with respect to the paper-roll to accommodate the position of the printing-cylinder to the size or position of the paper-roll on different styles of holders by simply positioning the journals or trunnions on the bar 13 in a lower or higher pair of notches 15^a in the arms 15, and also that the printing attachment may have a various pivotal movement on the pivot 12 and trunnions 14 with respect to the paper-roll to enable the printing-cylinder to accommodate itself to the irregular surface of the paper-roll on which it is operating. The movement made possible by the provision of the pivot 12 is found to be of the utmost importance to the making at all times of a perfect impression on the roll-surface, as it very frequently happens that the roll is not wound evenly on its axis or its surface is not in exact parallelism with the horizontal axis of the printing attachment, thus causing an uneven or imperfect impression to be made.

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

1. The combination with a paper-roll-holder frame of a plurality of notched arms carried by the frame, a bar having its ends removably journaled in alining notches in said arms, a hanger-frame pivotally carried by said bar, and printing means carried by the hanger-frame.

2. The combination with a paper-roll-holder frame, of notched arms adjustably se-

cured to the frame, a member having trunnions journaled in alining notches in the arms, a hanger-frame pivoted to said member, and printing means carried by said hanger-frame.

3. The combination with a paper-roll-holder frame, of arms secured to the frame and having a plurality of bearing-notches, and a printing attachment suspended from said arms and having a various pivotal movement relative thereto.

4. The combination with a paper-roll-holder frame, of stepped bearing-arms secured to the top piece of the frame and adjustable longitudinally thereof, and a printing attachment suspended from said arms and having a various pivotal movement relative thereto.

5. The combination with a paper-roll-holder frame, of adjustable arms secured thereto and each having a plurality of differently-positioned bearings, a suspending member having trunnions mounted in alining bearings in said arms, and printing means carried by said member.

6. The combination with a paper-roll-holder frame, of arms adjustably secured to said frame and each having a plurality of differently-positioned bearings, a member having trunnions mounted in alining bearings in said arms and a suspended member having pivotal connection with said member with its axis at right angles to the axis of said member, and printing means carried by the suspending member.

7. The combination with the top piece of a paper-roll-holder frame, of a frame carried by and adjustable longitudinally of said top piece, said frame having means for securing it in adjusted position and also having spaced arms projecting from one side thereof, said arms having a plurality of bearing-sockets, a suspending member having trunnions mounted in alining sockets in said arms, and printing means carried by the suspending member.

In witness whereof I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

MICHAEL McMAHON.

Witnesses:

C. W. OWEN,
CORELL SCHREIBER.