

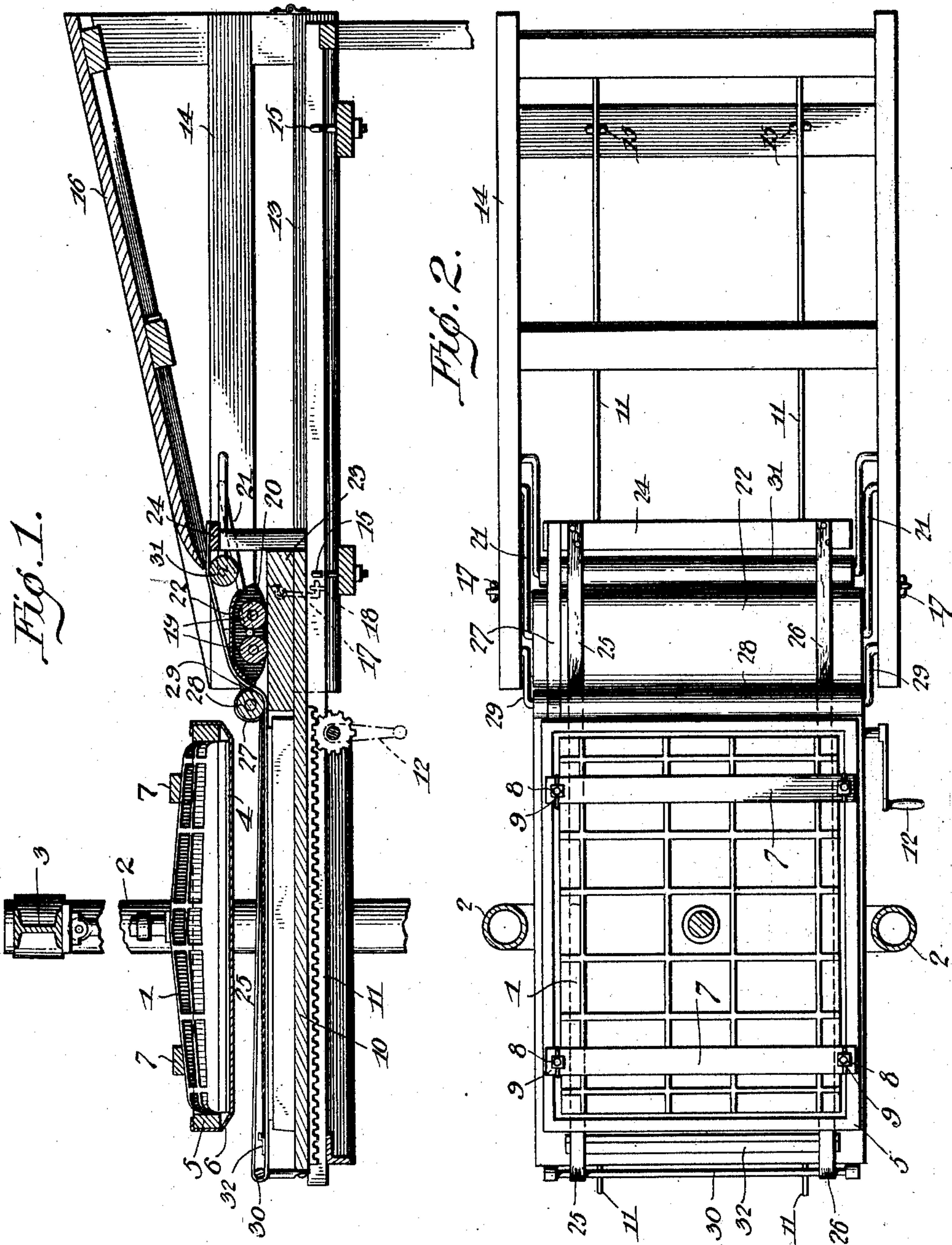
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C. S. INSKEEP.
ATTACHMENT FOR PRINTING PRESSES.

APPLICATION FILED AUG. 3, 1903.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 760,127, dated May 17, 1904.

Application filed August 3, 1903. Serial No. 168,085. (No model.)

To all whom it may concern:

Be it known that I, CARLOS S. INSKEEP, a citizen of the United States, residing at Swayzee, in the county of Grant and State of Indiana, have invented a new and useful Attachment for Printing-Presses, of which the following is a specification.

This invention relates to attachments for hand-operated printing-presses; and it consists in improved means for holding the blanket on the platen and in an improved paper-feeding and self-inking mechanism.

The object of the invention is to provide a hand-operated press with means for retaining the blanket or tympan-sheet on the platen in such manner that the wrinkling thereof will be positively prevented and to provide a simple and inexpensive device whereby the type will be automatically inked and the paper fed automatically into position for printing.

A further object of the invention is to provide a paper-feeding and self-inking attachment for hand-operated printing-presses by which the inking of the margins of the paper is prevented and in which the parts are so arranged that the paper-feeding tapes are kept from coming into contact with the inking-rolls.

With the objects above stated and others in view the invention comprises the construction and combination of parts of an attachment for hand-operated printing-presses, as hereinafter described and claimed, and illustrated in the accompanying drawings, it being understood that various changes in the form, proportions, and exact manner of assemblage of the elements exhibited may be made without departing from the spirit of the invention.

In the drawings, Figure 1 is a view in longitudinal section through the bed and platen of a printing-press with the attachment shown in operative relation thereto, the bed of the press being shown as in position for printing and a sheet of paper being shown on the carrying-tapes above the bed. Fig. 2 is a plan view of the structure shown in Fig. 1 with the upper portion of the frame in which the platen moves removed.

Referring now to the drawings, in which

corresponding parts are designated by the same characters of reference throughout the several views, 1 designates the platen of a hand-operated printing-press, which is mounted for vertical reciprocation in a frame comprising the vertical side columns 2 2 and the arched cross-piece 3. The platen 1 will be operated by means of any suitable mechanism.

In order to hold the blanket (indicated at 4) in proper position on the under side of the platen and to prevent the possibility of the formation of wrinkles in the blanket, I make use of a blanket-holding device comprising a frame 5, of such dimensions that it will just fit on the outside of the platen 1, and a sheet 6, of muslin or other thin smooth-surfaced fabric, which is stretched tightly over the frame 5 and secured thereon by any suitable fastening means, as by tacks driven through the fabric and into the upper surface of the frame over which the edges of the fabric are drawn. To hold the blanket-holder in position on the platen, I prefer to employ two transverse bars 7, arranged near the ends of the frame 5 and secured thereon by means of bolts 8 and thumb-nuts 9.

The manner of using the blanket-holding attachment will be clearly evident from the drawings. The blanket, which rests upon the sheet of muslin, is placed in proper position thereon to correspond to the outlines of the platen, and the frame 5 is then fitted over the platen, as shown, with the blanket and the sheet of muslin beneath the platen. The cross-bars 7 are then placed upon the bolts 8 and the thumb-nuts 9 are screwed down until the frame has been raised sufficiently to straighten out all the irregularities in the surface of the blanket and to cause it to lie perfectly smooth on the under side of the platen.

The bed of the press (indicated at 10) is mounted for reciprocation upon ways 11 and is given a to-and-fro movement by suitable mechanism actuated by means of a crank 12.

The self-inking attachment comprises a frame composed of the hinged sections 13 and 14 and is suspended by means of hooks 15 from the ways 11, on which the bed reciprocates. The sections 13 and 14 are hinged together

at the rear end, as shown, and the upper section 14 is higher at the rear than the forward end to furnish suitable support for an inclined feed-table 16, which is removably supported thereon. In order to hold the two frame-sections in proper relative position at their forward ends, hooks 17 are provided on the upper section and eyes 18 for engagement therewith are provided on the lower section.

Inking-rolls 19 are rotatably mounted in suitable bearing-blocks 20, and the latter are supported by means of links 21, attached at one end to the bearing-blocks 20 and at the other end to the lower side members of the frame-section 14. Attached to the upper surface of the bearing-blocks 20 is a curved sheet-metal shield 22, which so covers the inking-rolls 19 that they do not contact with sheets of paper or tapes moving above them. The ink-table, from which the ink is supplied to the rolls 19, is made of metal or wood covered with metal and is mounted at the rear of the reciprocating bed 10, as shown at 23. The table 23 is of such width that it may reciprocate with the bed between the side pieces of the frame-sections and has at the rear thereof a few inches above the ink-receiving surface a transverse bar 24, whose utility will presently be explained.

The paper-feeding mechanism comprises a set of tapes and operating devices therefor. The tapes (three in number and designated 25, 26, and 27) are all attached at one end to the bar 24 and at the other end to a roll 28, which is rotatably supported upon swinging brackets 29, mounted in the forward end of the upper frame-section 14. The tapes 25 and 26 extend forward from the bar 24 and pass under a bar 30, mounted at the forward end of the press-bed 10, and then extend backward to be secured at their ends to the roll 28. The tape 27 is wound in an opposite direction to the tapes 25 and 26, and it is also fastened at its rear end to the bar 24; but instead of passing forward under the bar 30 upon the bed 10 it passes directly to the roll 28 and is attached thereto on the side opposite the points of attachment of tapes 25 and 26. Owing to the way in which the tapes are arranged the reciprocation of the bed 10 will cause the tape 27 to be wound on the roll 28 during the forward movement of the bed and will cause the tapes 25 and 26 to be wound on the roll during the rearward movement of the bed. All of the tapes 25, 26, and 27 pass over a guide-roll 31, supported in the side pieces of frame-section 14 a little to the rear of the inking-rollers, and upon the tapes 25 and 26 there is mounted a gage-bar 32, by means of which sheets of paper will be fed to the proper position for printing when the bed travels forward in the ways 11. The forward movement of the tapes will move the gage-bar to a point adjacent to the roll 25, so that when the paper is fed between the roll 25 and

the tapes the edge of the paper will abut against the gage-bar and the sheet will be prevented from moving too far rearward. This gage-bar will also serve to convey the sheet back through the roll and the tapes, so that they can be removed and additional ones substituted.

When the press is in operation, the papers will be fed by hand from the feed-table 16 to the tapes 25 and 26 and will be carried forward on the tapes and brought into proper printing position by means of the gage-bar 32. Upon the completion of the printing operation the platen 1 will rise and the bed 10 will move rearward. At the same time the tapes will carry the printed sheet rearward also to such position that it may be readily removed and a fresh sheet placed upon the tapes to be carried forward upon the return movement of the bed of the press for printing.

By means of the self inking and feeding attachment above described it will be evident that one person will be enabled to operate the press unaided, as the crank by means of which all the movements of the press are brought about may be readily turned with one hand and the feeding of the fresh sheets to the tapes and the removal of the printed sheets therefrom can be easily done with the other hand.

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

1. In a printing-press the combination with a frame having ways and provided with a platen, of an inking mechanism for the press, comprising a frame adapted for attachment to the ways upon which the bed of the press travels, an ink-table attached to the bed of the press at the rear end thereof, and ink-rolls mounted in the forward end of the frame, and means for feeding paper over said rolls.

2. In a printing-press, the combination with a frame, having ways and a reciprocating bed in the ways, of an inking mechanism, comprising a frame adapted for suspension from the ways in which the bed of the press travels, an ink-table attached to the bed of the press at the rear end thereof, and ink-rolls mounted in the forward end of the frame, and means for feeding paper over said rolls.

3. In a printing-press, the combination with a bed-frame having ways, of a reciprocating bed in said ways and an inking mechanism, comprising a frame, a pair of links pivotally secured to said frame, bearing-blocks supported by said links, ink-rolls rotatably mounted in said bearing-blocks, and an ink-table rigidly attached to the bed of the press at the rear end thereof, and means for feeding paper over said rolls.

4. In a printing-press, the combination with a bed-frame having ways, of a reciprocating bed in said ways, a frame adapted for suspension from the ways in which the press travels,

an ink-table attached to the bed of the press at the rear thereof, ink-rolls mounted in the forward end of said frame, a sheet-metal shield over said ink-rolls, and paper-carrying tapes 5 attached at one end to said ink-bed and at the other end to said frame.

5. In a printing-press, the combination with a bed-frame having ways, of a reciprocating bed in said ways, a frame adapted for suspension from the ways in which the bed of the press moves, a bar carried at the rear end of said bed, a bar at the forward end of said bed, a roll rotatably mounted in the forward portion of said frame, a set of tapes attached at 15 one end to the bar at the rear of the press-bed, passing around the bar at the forward end of the press-bed and attached to the roll in the forward end of said frame, and means for rotating said roll to wind said tapes thereon when the bed of the press moves toward the rear of said frame.

6. In a printing-press, the combination with a bed-frame having ways, of a reciprocating bed in said ways, a frame adapted for suspension from the ways in which the bed of the press moves, a bar mounted at the rear of said bed, a bar mounted at the front of said bed, a roller mounted in the forward end of said frame, a pair of tapes attached at their rear 25

ends to the bar at the rear of the press-bed, 30 extending forward, passing around the bar at the forward end of the press-bed and attached at their forward ends to the roll in said frame, and a third tape attached at the rear end to the bar at the rear of the press-bed, and attached at its forward end to the roll in the forward part of the frame.

7. In a printing-press, the combination with a bed-frame having ways, of a reciprocating bed in said ways, a frame adapted for suspension from the ways in which the bed of the press moves, a bar at the rear of said bed, another bar at the front of said bed, a roller rotatably mounted in the front of said frame, a pair of tapes attached to the bar at the rear 45 of the bed, passing around the bar at the front of the bed and attached to the roll in the frame, means for rotating the roll to wind said tapes thereon during the rearward movement of the press-bed, and a gage-bar mounted 50 on said tapes between said bars.

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

CARLOS S. INSKEEP.

Witnesses:

J. T. ANDERSON,
CHAS. E. BARNETT.