(No Model.)

M. N. & L. E. TOMBLIN.

ATTACHMENT FOR PRINTING PRESSES.

No. 452,491. Patented May 19, 1891.

Fig. 1

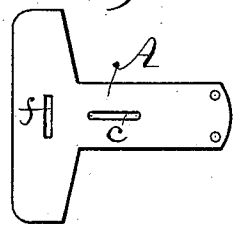


Fig. 2

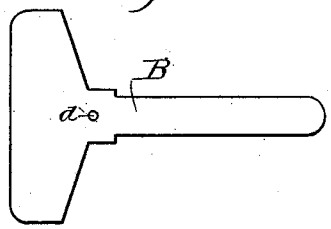


Fig. 3

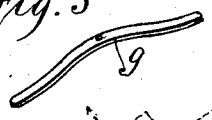


Fig. 4



Fig. 5

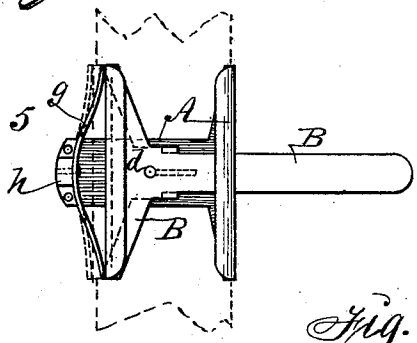


Fig. 6

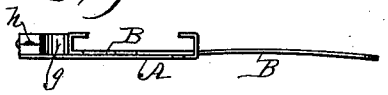
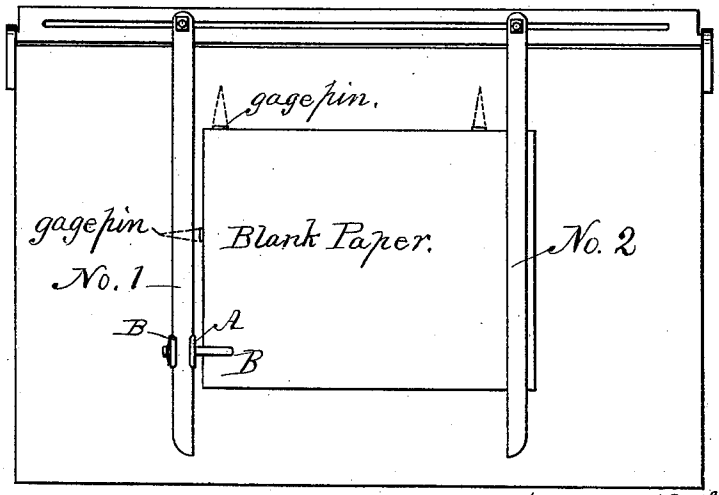


Fig. 7



Witnesses:
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UNITED STATES PATENT OFFICE.

MARION N. TOMBLIN AND LEE E. TOMBLIN, OF DES MOINES, IOWA.

ATTACHMENT FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 452,491, dated May 19, 1891.

Application filed March 10, 1890. Serial No. 343,407. (No model.)

To all whom it may concern:

Be it known that we, MARION N. TOMBLIN and LEE E. TOMBLIN, citizens of the United States of America, and residents of Des Moines, in the county of Polk and State of Iowa, have invented a Gripper Attachment for Printing-Presses, of which the following is a specification.

Our object is to facilitate attaching and adjusting an auxiliary gripper in a printing-press as required to place it in position on a gripper to hold sheets of paper on a platen relative to forms of different sizes and in different positions on the bed of a press; and our invention consists in an attachment, constructed as hereinafter set forth, that can be readily slipped on and off a gripper of common form, and that will automatically clasp hold of the main gripper, as required, to retain it stationary thereon at any point desired.

In the accompanying drawings, Figures 1 and 2 are diagrams of sheet-metal blanks. Fig. 3 is a perspective view of a spring, and Fig. 4 of a spring-fastener. Fig. 5 is a top view, and Fig. 6 is an edge view, of the complete attachment. Fig. 7 is a top or face view of a platen, showing a sheet of paper held thereon by the aid of our auxiliary gripper.

A is the under part and base of our device, and B the top and sliding part. They are cut from sheet metal by means of dies and a press and their broad ends doubled upward and backward, as required, to overlap the edges of a straight gripper, as shown in Fig. 5. The plate A has a longitudinal slot C in its central portion, and the plate B has a fixed rivet, stud, or screw *d*, extending through the slot *c* in the plate in such a manner that it will retain the two plates in overlapping position and allow the top plate B longitudinal motion. A slot *f* in the plate A allows the end of the plate B to be passed through to aid in keeping the two plates together.

g is a spring fastened to a metal block *h* by means of a screw, and the block and spring then jointly fastened on top of the rear end of the plate A by means of rivets in such a manner that the free ends of the spring will engage the doubled rear end of the plate B and in its normal condition press it toward the doubled edge of the part A.

Nos. 1 and 2 are grippers of common form, connected with the platen in a common way.

In the practical use of our invention, when made of proper size to fit the gripper upon which it is to be placed and adjusted, the spring is compressed to allow the backwardly turned or doubled edges of the parts A and B to be separated far enough to admit the end of the gripper to pass between them, so that the device can be slipped over the end to any point desired. By then relaxing pressure upon the spring its force will be exerted to press the two doubled edges of the gripper and retain the attachment stationary in such a position that the narrow extension of the sliding top part B will project at right angles from the gripper to serve as an auxiliary gripper that will overlap and hold the left end of a sheet of paper when it is impractical to allow the main gripper to overlap the sheet.

When large sheets are to be fastened to the platen, two or more of our attachments can be applied to one of the straight and main grippers, Nos. 1 and 2.

We claim as our invention—

1. A gripper for printing-presses, composed of a plate A, having slots and the edge of one end turned inward, a plate B, having a fixed stud *d* extending through the one slot in the plate A and the edge of its one end turned inward, and a spring fixed to the one end of the part A to engage the turned edge of the part B, substantially as shown and described, for the purposes stated.

2. An auxiliary gripper for printing-presses, composed of two intersliding plates or fingers having flanges or clasps projecting across their ends adapted to engage the parallel edges of a vibrating gripper of common form, and a spring fixed to one of said plates to normally press the clasps toward each other, in the manner set forth, for the purposes stated.

MARION N. TOMBLIN.
LEE E. TOMBLIN.

Witnesses:
JOHN DWYER,
THOMAS G. ORWIG.