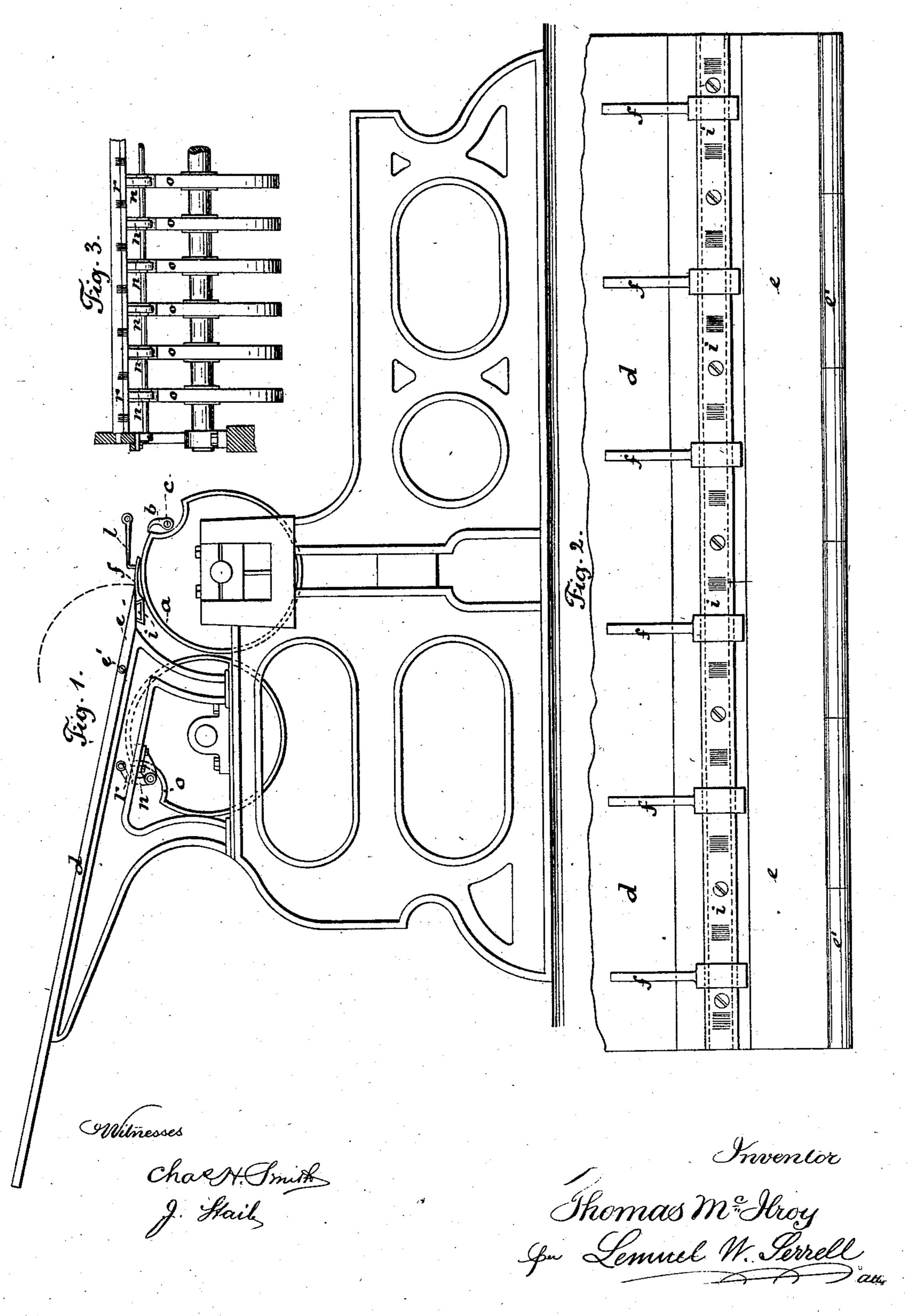
(No Model.)

## T. McILROY.

GRIPPER ATTACHMENT FOR PRINTING PRESSES.

No. 255,181.

Patented Mar. 21, 1882.



## United States Patent Office.

THOMAS McILROY, OF BROOKLYN, NEW YORK.

## GRIPER ATTACHMENT FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 255,181, dated March 21, 1882.

Application filed May 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, Thomas McIlroy, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Griper Attachments for Printing-Presses, of which the following is a specification.

In printing-presses the sheet is usually taken from the feed-board by gripers upon the impression cylinder. These gripers are comparatively close together, and hence are adapted to sheets of different sizes; but the fingers or

tongues upon which the sheet rests when taken by the gripers have to be adjusted to suit the position of the sheet that is to be printed, and also the positions of the gripers, for they must not interfere with the gripers on the impression-cylinder as they fly around and catch the sheet. In transferring the sheet from the impression-cylinder to the delivery or fly cylinder a second set of gripers is employed on the second cylinder, and these have to be placed so as to grasp the sheet and remove it from the

impression-cylinder, and these second gripers must be adapted to the size of sheet that is to be printed, so as to grasp the same firmly and take the sheet away; but the second gripers must not come into contact with the gripers

on the impression-cylinder.

The object of my invention is to facilitate the adjustment of the second set of gripers to take the sheet from the gripers of the impression-cylinder, and to allow for the supporting tongues or fingers at the lower end of the feedtable being properly placed by the simple inspection of the under side of the feed-table, when the lower hinged portion thereof is turned back for that purpose, thereby lessening the amount of time and labor expended in placing the parts properly when there is a change in the printing that is done on the press.

In the drawings, Figure 1 is a side view of the printing-press as far as necessary to illustrate the special feature of my improvement. Fig. 2 shows part of the under side of the hinged feed-board; and Fig. 3 shows the indicator-bar that is employed in setting the gripers of the

second or transfer cylinder.

The impression-cylinder a is provided with the row of gripers b upon the shaft c. These so are of any usual character.

d is the feed-table, with the feed-board eacross

its lower end, the same being hinged at e', so that it may be turned back upon the feed-table for the adjustment of the sheet-supporting fingers or tongues f, that project over the impression-cylinder. Each finger has a block at its back end, that is notched to set over a dovetailed bar, i, and the said blocks can be moved laterally, so as to place the fingers in the required position for holding the lower 60 edge of the sheet ready to be taken by the gripers, and each finger is retained in place by friction after it has been adjusted to position.

l is the gage for the lower edge of the sheet. The parts thus far described are of the usual 65 construction; but it is difficult to adjust the positions of the fingers or tongues f so that the sheet will be properly supported without the risk of the fingers being in the way of the gripers upon the impression-cylinder. To fa- 70 cilitate this I make use of indicator marks upon the dovetailed bar i, or upon the under side of the feed-board, that denote the places where the griper-fingers are upon the impression-cylinder, so that when the feed-board is turned over 75 and the fingers are being moved into the positions required for supporting the sheetitis only necessary to avoid placing the supporting-fingers at the places that correspond with the gripers. Hence when the feed-board is turned back 80 to its place the fingers will be adapted to supporting the sheet, and also be out of the way of the gripers. Hence there is no time lost in turning the feed-board back and moving the fingers in one direction or the other, and then 85 trying the parts to see if they are properly placed, and this adjustment of the fingers can be made without the necessity of turning the impression cylinder around so that the gripers are adjacent to the fingers. In placing the 90 second set of gripers, n, which are upon the delivery or fly cylinder o, still more difficulty has been experienced, because the gripers of the delivery-cylinder are inaccessible when they are near the gripers of the impression-cylinder. 95 In order, therefore, to enable the workman to know exactly where the gripers of the impression-cylinder are placed, I make use of an indicator-bar, r, upon which are marked the positions of the gripers on the impression cylin- 100 der, and this bar r is firmly secured between the frames of the press near the under side of

the feed-table, and in the place where it is most convenient to obtain access to the gripers n. Hence in setting these gripers it is only required that a comparison be made of the gripers with 5 the indicator-bar to enable the workman to set the gripers n so that they will entirely avoid the gripers b of the impression cylinder as the sheet is taken from the impression-cylinder to the delivery or fly cylinder. By means of this to indicator-bar the loss of time usually arising in setting the gripers of the delivery-cylinder is avoided.

I remark that I prefer and use separate pulleys, each one having a griper, n, and move 15 the pulleys endwise of the shaft, so as to set the pulleys and gripers in the required places, instead of having a complete cylinder for said

gripers.

The marks may be made upon the shaft of 20 the delivery-cylinder, if desired, for indicating the position of the gripers on the impressioncylinder.

I claim as my invention—

1. The combination, with the impression cylinder and its gripers, of a hinged feed-board, 25 adjustable fingers, a bar carrying the same, and an indicator at the under side of such feedboard to denote the positions of the gripers, substantially as set forth.

2. The combination, in a printing-press, of 30 the impression cylinder and gripers, a deliverycylinder and gripers, and an indicator having marks that denote the positions of the gripers on the impression-cylinder, substantially as set forth, whereby the gripers of the delivery-cyl- 35 inder can be placed so as to avoid contact with the gripers on the impression-cylinder, substantially as specified.

Signed by me this 27th day of April, A. D.

1881.

THOMAS McILROY.

Witnesses: GEO. T. PINCKNEY,

WILLIAM G. MOTT.