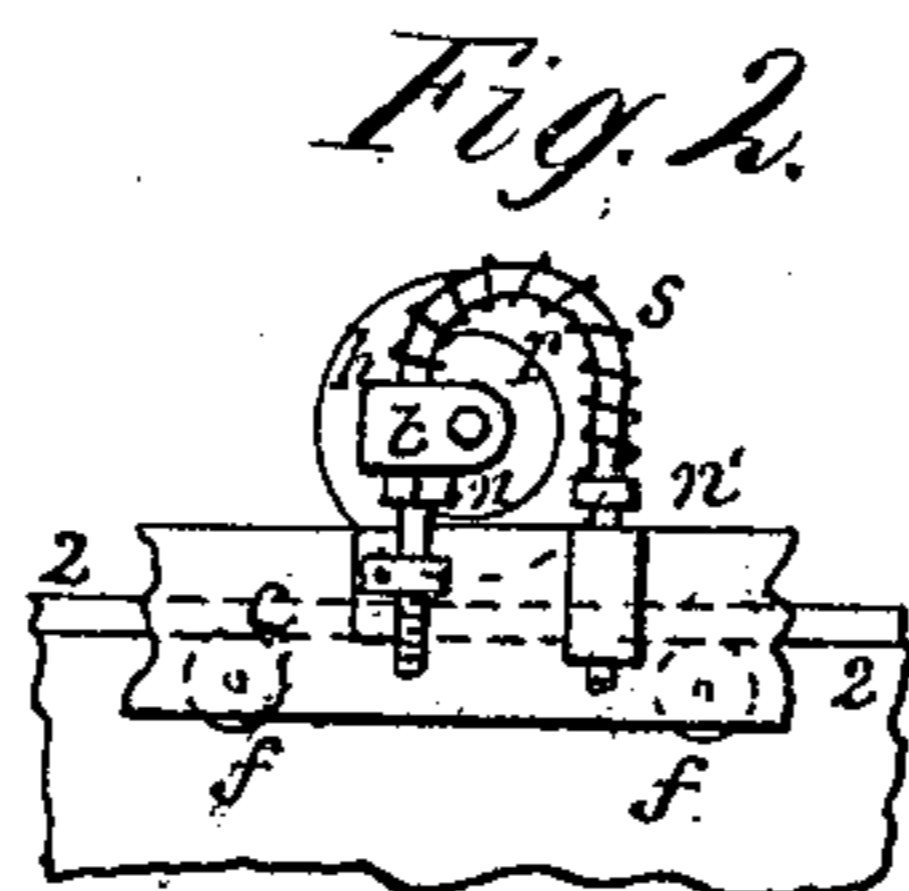
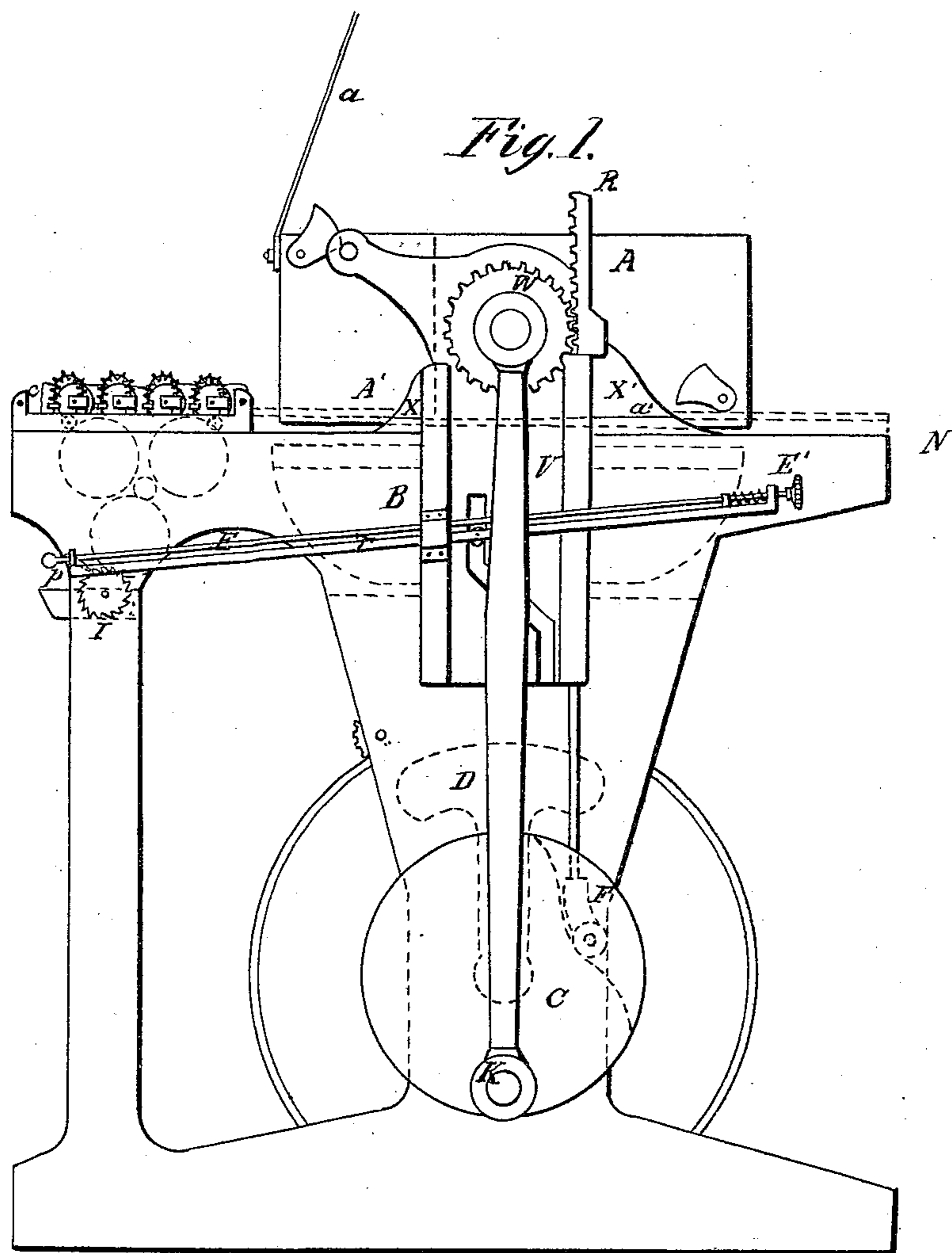


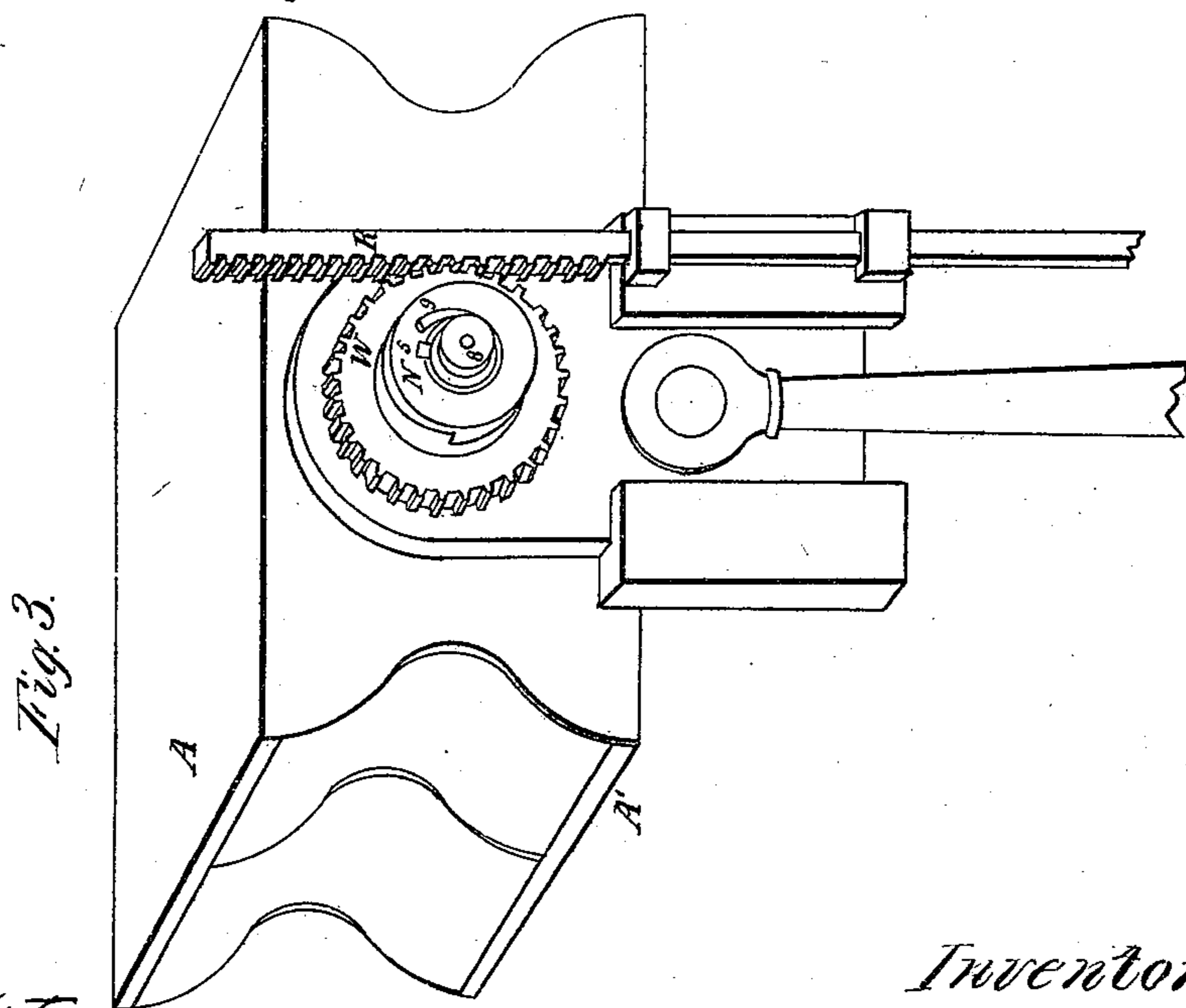
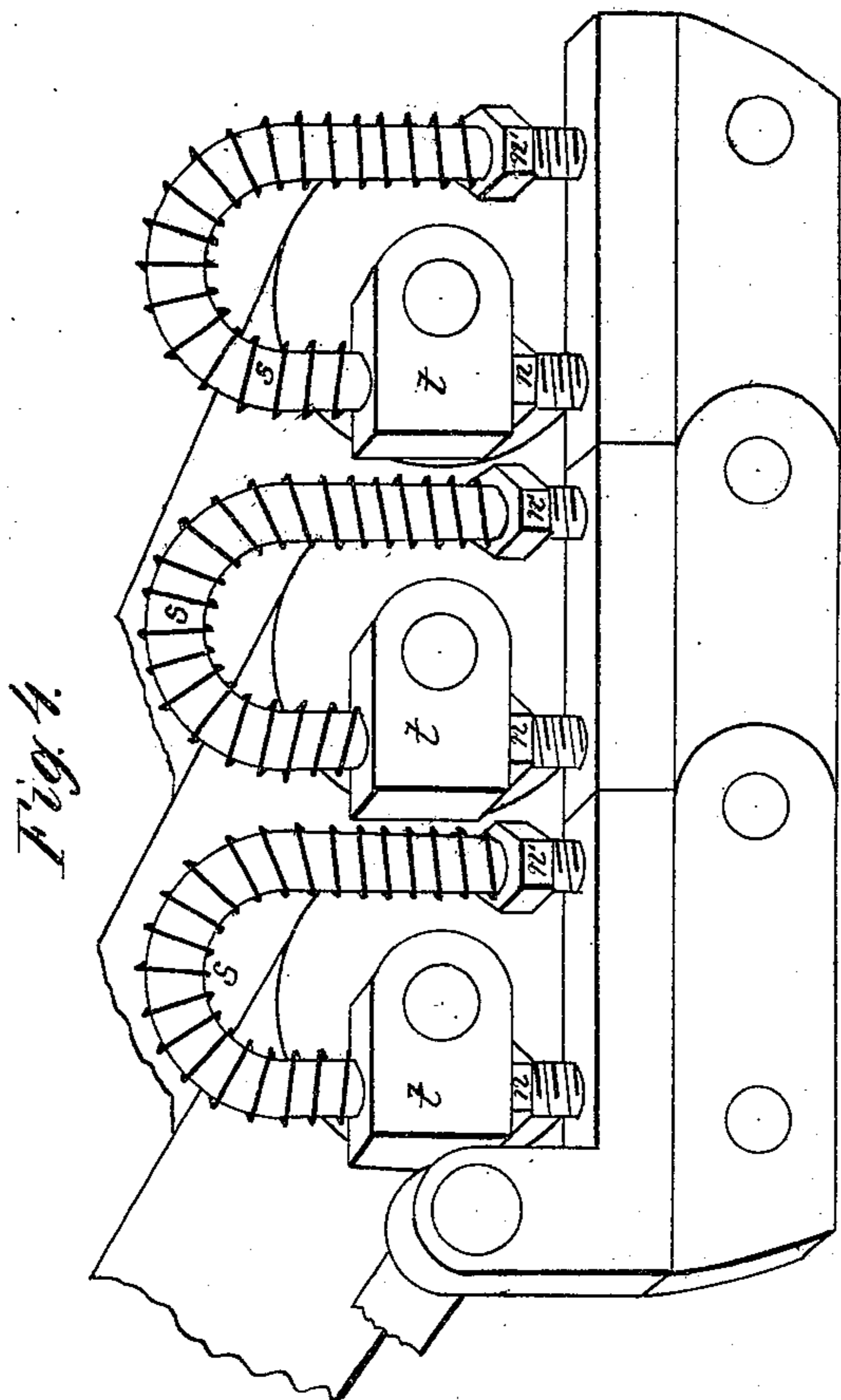
M. Gally. Sheet 1, 2 Sheets.
Printing Press.
N^o 96,578. Patented Nov. 9, 1869.



Witnesses.
George W. Carpenter
Allen P. Carpenter

Inventor.
Merritt Gally

M. Gally. Sheet 2, 2 Sheets.
Printing Press.
Nº 96,578. Patented Nov. 9, 1869.



Witnesses.
George W. Carpenter
Allen P. Carpenter

Inventor.
Merritt Gally.

UNITED STATES PATENT OFFICE.

MERRITT GALLY, OF RYE, ASSIGNOR TO ALLEN CARPENTER, OF ROCHESTER,
NEW YORK.

IMPROVEMENT IN PRINTING-PRESSES.

Specification forming part of Letters Patent No. 96,578, dated November 9, 1869.

To all whom it may concern:

Be it known that I, MERRITT GALLY, of Rye, in Westchester county and State of New York, have invented a new and useful Improvement in Printing-Presses; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 represents a side view of the press, showing the parts claimed. Fig. 2 represents a section of the roller-carriage, showing the manner of adjusting the pressure of the rollers upon the form, and also the manner of locking the roller-carriage to the frame of the press. Figs. 3 and 4 represent detached portions upon an enlarged scale.

I make the platen with two faces, A A', which alternate in their impressions upon the form, so that one sheet placed upon one face of said platen may be printed while another sheet is being placed upon the opposite face. The faces A A' are made to change places with respect to each other by the working of the rack R in connection with the pinion W. The platen is supported and turned upon journals or trunnions, which project from each end of said platen, midway between the two faces A A'; and the pinion W is allowed to turn freely in one direction upon one of said journals, but is prevented from turning in the opposite direction upon the journal by a common clutch, N⁵, Fig. 3, Sheet 2, one-half of said clutch forming a part of the body of pinion W, while the other half of said clutch slides on a feather bedded into the journal 8, Fig. 3, Sheet 2. The spring 9 holds the clutch in working position. The rack R, in its upward movement, (caused by the cam C below,) together with a downward movement of the platen, turns said platen, and interchanges the faces A and A', the rack R leaving the pinion W after one half-revolution of said pinion, after which impression is made. On the other hand, when the platen rises from the

impression, and the rack R is allowed to move downward, the pinion W turns freely in the opposite direction without turning the platen, allowing the platen to remain in position for feeding the sheet next to be printed.

Fig. 4, Sheet 2, represents an end view of the roller-carriage, containing the inking-rollers, which are held in journal-boxes *t t t*.

Said journal-boxes are allowed to slide up and down upon (or back and forth upon, as the case may be) rods which are made fast to the body of the "roller-carriage," and project from said carriage on the "roller side." Said rods are bent in form of an inverted letter U, and upon said rods are placed coiled springs S, against which the journal-boxes *t* act when moved upon the yokes or bent rods upon which they slide.

The rollers are set (as to their impression on the types) by changing the position of their journal-boxes *t t t* by means of the nuts *n n n*, and the tension of the springs S S S is regulated by the nuts *n' n' n'*.

The object of bending the springs and rods S S S in the yoke form represented is to allow the use of a long spring, with slight extension from the roller-carriage proper, or body of carriage.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A platen for a printing-press, having two opposite faces, A A', in combination with rack and pinion R W and clutch N⁵, substantially as herein described, and for the purpose herein set forth.

2. The yoke-shaped rod and spring S, journal-box *t*, and nuts *n n'*, in connection with the body of a roller-carriage, when combined and constructed as herein described, and for the purpose herein set forth.

MERRITT GALLY.

Witnesses:

ALFRED WRIGHT,
JNO. F. STALEY.