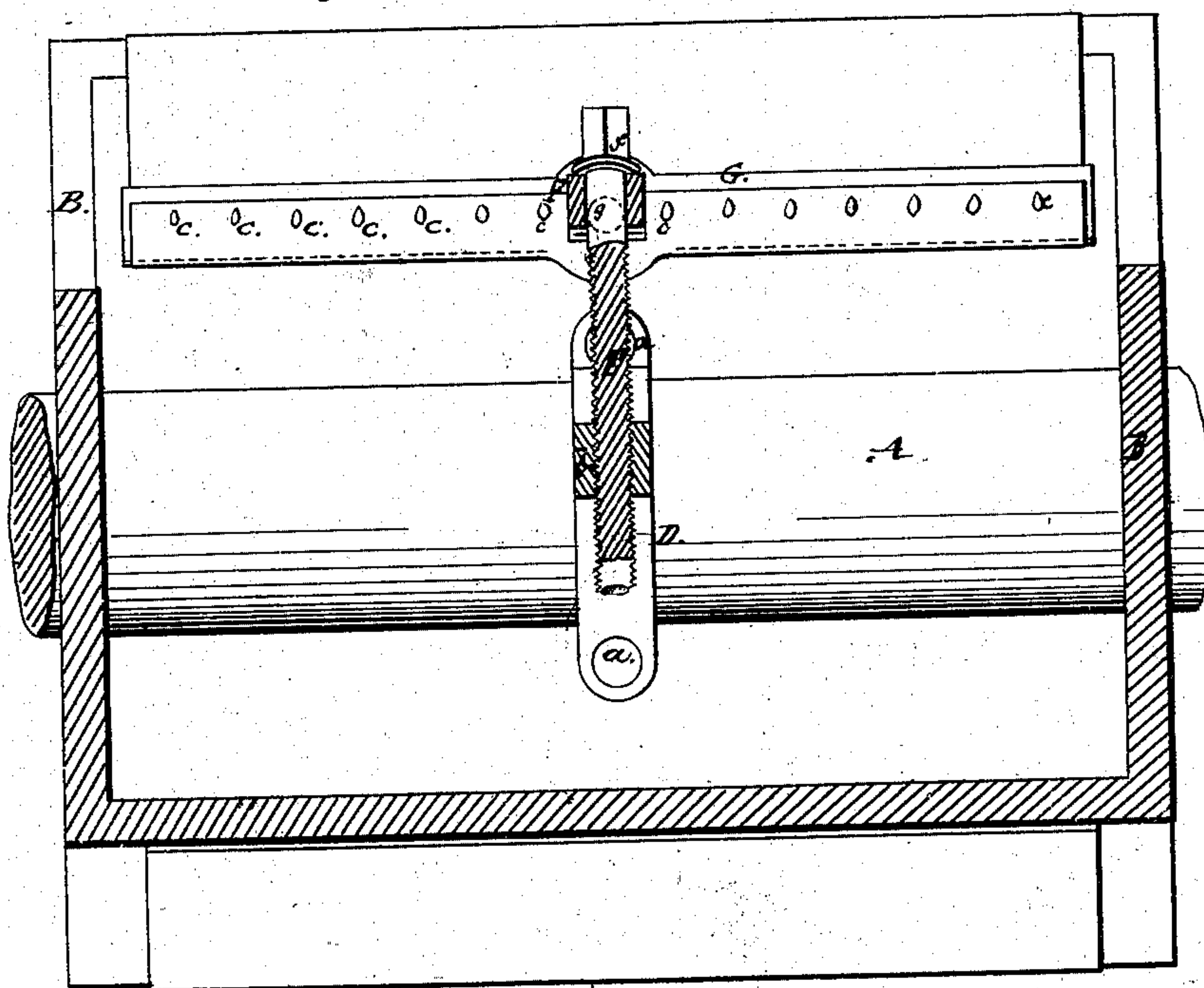
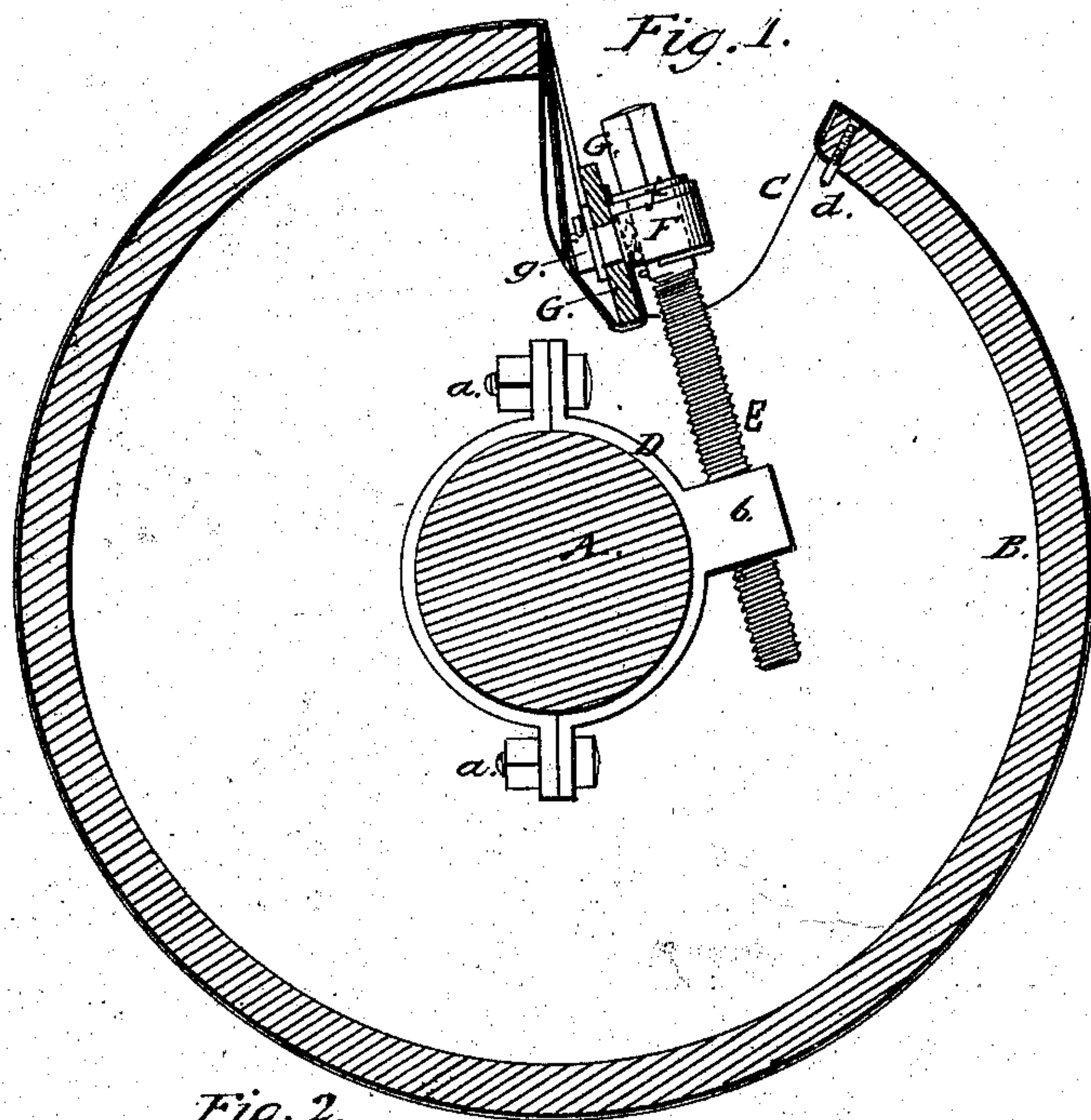


No. 10,935.

PATENTED MAY 16, 1854.

W. H. STREET.
ATTACHMENT FOR BLANKETS OF PRINTING PRESSES.



UNITED STATES PATENT OFFICE.

WILLIAM H. STREET, OF NEW YORK, N. Y.

MODE OF ATTACHING BLANKETS TO CYLINDERS FOR PRINTING-PRESSES.

Specification of Letters Patent No. 10,935, dated May 16, 1854.

To all whom it may concern:

Be it known that I, WILLIAM HENRY STREET, of the city, county, and State of New York, have invented a new and useful
5 Device for Attaching the Blankets to the Cylinders of Printing-Presses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in
10 which—

Figure 1, is a transverse section of a cylinder, having the blanket attached by my device. Fig. 2, is a longitudinal section of a
15 part of the same.

Similar letters of reference indicate corresponding parts in the several figures.

The method at present employed, of attaching the blankets to the cylinders by sewing, is both inconvenient and insecure. The
20 object of my invention is to obtain a means of attachment which affords the requisite security, and enables the blanket to be attached quickly, and every part to be brought
25 to any desirable, and an uniform degree of tension.

This invention consists in the employment, as hereinafter described, within the cylinder, of a series of pins, a toothed bar,
30 and a male and female screw; the said bar being for the purpose of holding one end of the blanket, while the other is attached to the cylinder, and the male and female screw being for the purpose of drawing the blanket
35 to the desired degree of tension.

To enable those skilled in the art, to make and use my invention, I will proceed to describe its construction and operation.

A, is the cylinder shaft.

40 B, is the cylinder which is usually made in sections; one of such sections being represented in Fig. 2.

C, is the opening to receive the gripper shaft.

45 D, is a ring formed of two parts, connected by screws, *a, a*, to clamp the shaft together near the center of the section of the cylinder. One part of this ring has a lug, *b*, in which is a female screw, which receives
50 the male screw, E. This screw has a collar, *f*, fast upon it, below its head, and below this collar is a plain neck, which fits to turn freely in a loose collar, F; and below the

loose collar, a small pin is inserted in the screw to prevent the screw moving endwise
55 in the collar. At the back of the collar, F, and firmly attached to it, is a stud, which stands at right angles to the screw, and forms a pivot by which to attach the toothed
60 bar, G. The toothed bar is of a length nearly equal to the interior length of the section of the cylinder, and is pivoted to the screw at the center of its length, and capable
65 of vibrating freely. On its front side is a row of hooked teeth, *c, c*, whose points turn toward the outside of the cylinder. The screw, E, stands in a line toward the opening, C, in the cylinder, inclining rather toward that side of the opening, nearest which
70 the bar, G, is situated.

The blanket, which is represented in the drawing in red color, to distinguish it from other parts, is attached by catching one end
75 upon a row of pins, *d*, standing inward from the shell of the cylinder near that edge of the opening, C, which is on the opposite side of the screw to the bar, G, and then leading it around the cylinder, and down the back
80 of the bar, G, and turning the edge up in front of the bar, and catching it on the hooked teeth, *c, c*. In order to accomplish
85 this easily, the screw may be taken altogether from the cylinder; or, at any rate, drawn back as far as is necessary, before attaching the blanket to the bar. After the
90 blanket is attached to the bar, the screw is screwed inward to the cylinder, to draw the blanket tight, and as it tightens, the oscillation of the bar, G, insures the same degree
95 of tension to both sides, and to all parts, if hooked straightly at the ends.

The female screw, to receive the male screw, E, may be formed in any part of the interior of the cylinder, instead of in a ring
100 secured to the shaft; but that method of construction affords facility, by moving the ring upon the shaft, to bring the screw to the proper position; and in that respect, is
105 probably better than any other.

The arrangement of all the parts is such
100 that the necessary manipulations in taking off, adjusting, or renewing the blanket; can all be performed without disarranging or removing the gripper shaft, or any other
105 part of the press; and that the proper working of no part is interfered with.

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

Attaching one end of the blanket to the cylinder, by a row of pins, *d*, arranged
5 within the cylinder, on one side of the opening which receives the gripper shaft; and the other end to a toothed bar, *G*, which occupies a position within the cylinder, and

has a screw, *E*, applied in any way, substantially as described, to draw it inward to 10 tighten the blanket.

W. H. STREET.

Witnesses:

O. D. MUNN,
Jno. W. HAMILTON.