

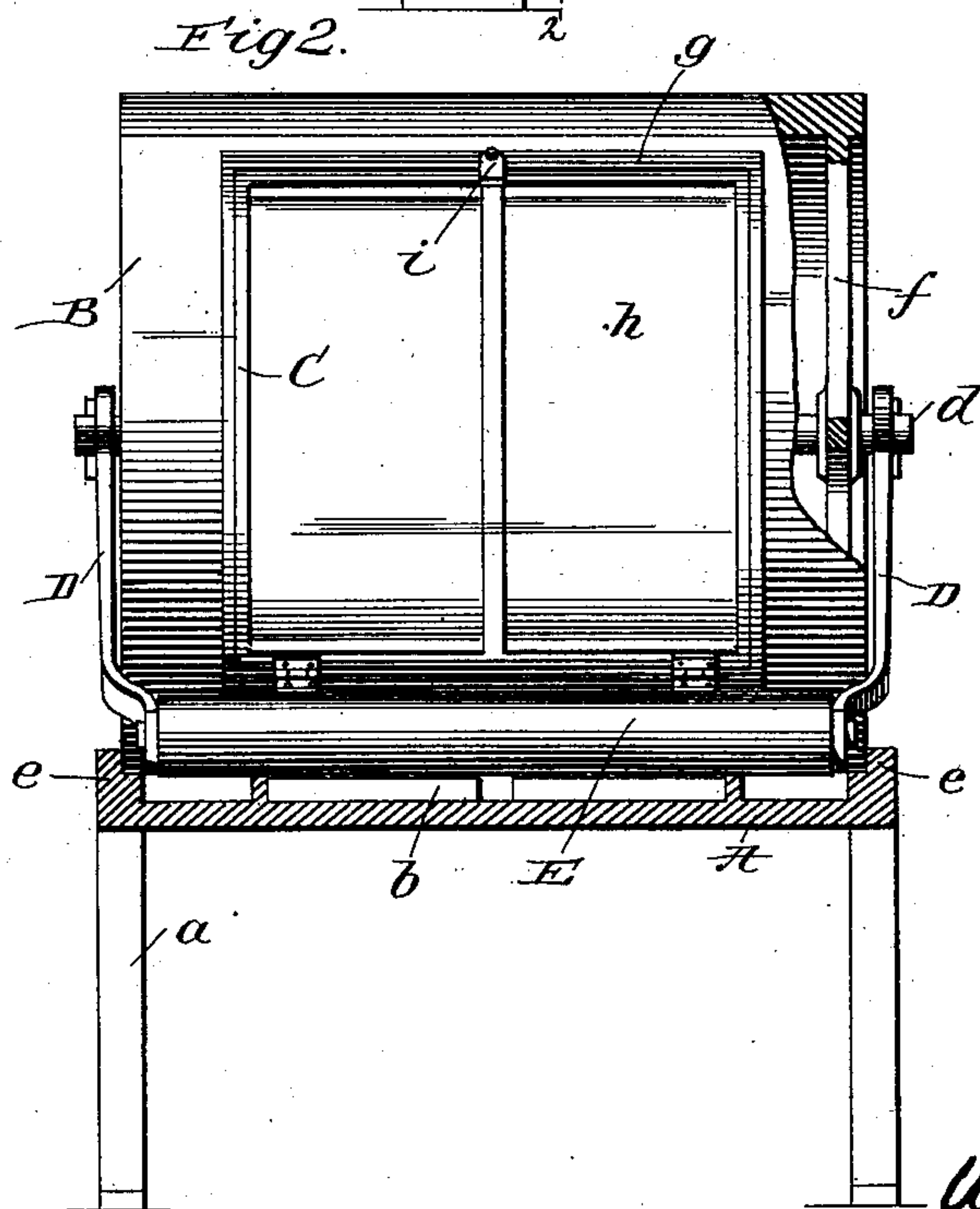
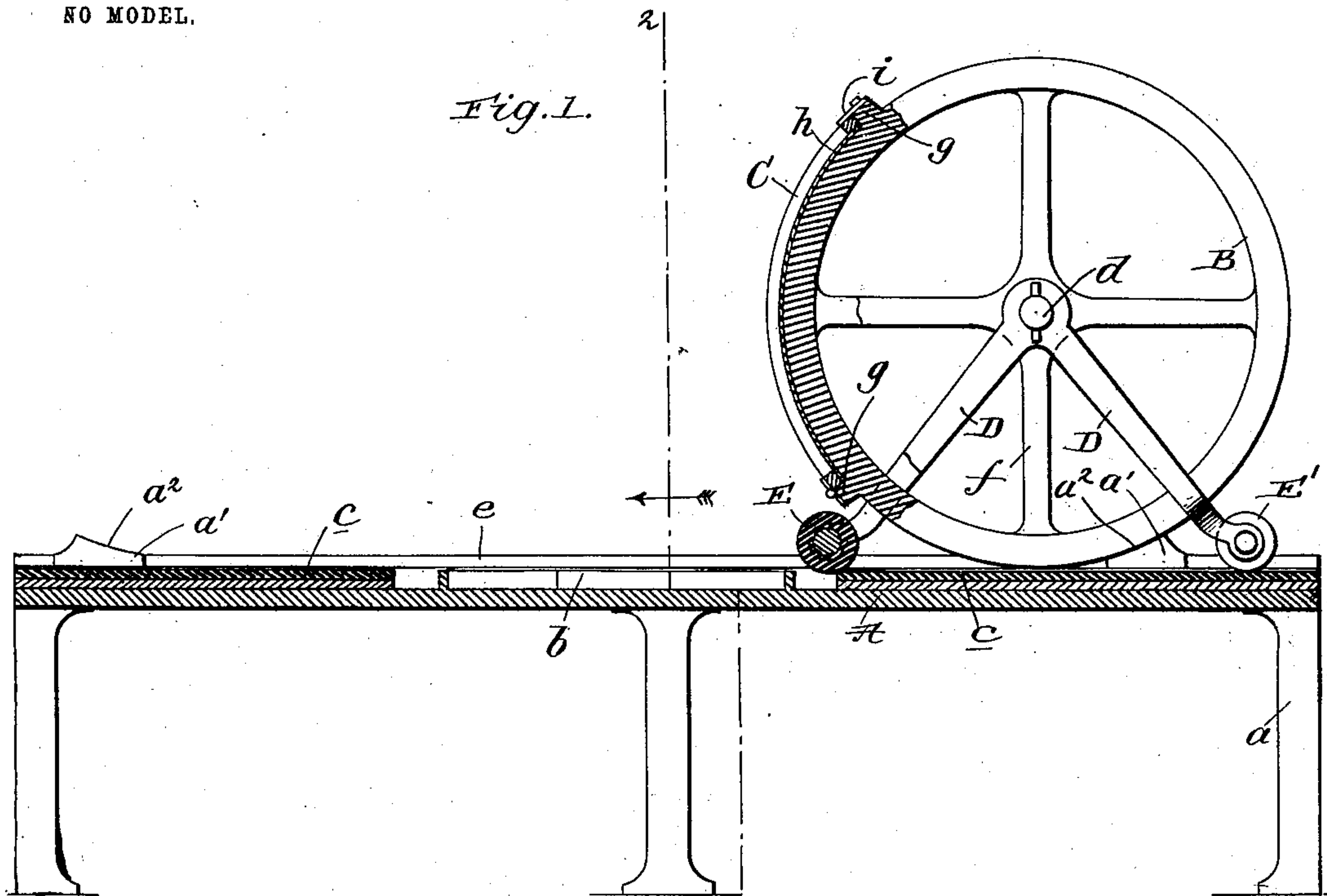
No. 744,371.

PATENTED NOV. 17, 1903.

W. A. LOGUE.
PRINTING PRESS.

APPLICATION FILED JULY 22, 1903.

NO MODEL.



Witnesses
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By

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UNITED STATES PATENT OFFICE.

WILLIAM A. LOGUE, OF RATHDRUM, IDAHO, ASSIGNOR OF ONE-HALF TO
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PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 744,371, dated November 17, 1903.

Application filed July 22, 1903. Serial No. 166,632. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. LOGUE, a citizen of the United States, residing at Rathdrum, in the county of Kootenai and State of Idaho, have invented new and useful Improvements in Printing-Presses, of which the following is a specification.

My invention pertains to printing-presses; and it has for its object to provide a printing-press which is a material simplification of those extant and yet is adapted to do good work with but a minimum amount of effort on the part of the operator.

The invention will be fully understood from the following description and claims when taken in connection with the accompanying drawings, forming part of this specification, in which—

Figure 1 is a view, partly in side elevation and partly in vertical section, of the printing-press constituting the preferred embodiment of my invention; and Fig. 2, a transverse section taken in the plane indicated by the line 2 2 of Fig. 1.

Similar letters designate corresponding parts in both views of the drawings, referring to which—

A is the bed of my improved press, which is provided with the usual legs *a* and also with stops *a'*, the said stops being disposed adjacent to the ends of the bed and having upper sides *a''*, which describe arcs of circles for a purpose presently set forth. On the bed type-forms *b* and ink-plates *c* are suitably secured, the type-forms being disposed between the ink-plates, as shown in Fig. 1.

B is an impression-cylinder, which carries a central shaft *d* and is arranged to move longitudinally of the bed A between guide-rails *e* thereon, Fig. 2. This cylinder is provided at one or both of its ends with spokes *f*, and it is also provided with a frame *g*, preferably integral, disposed on its perimeter and adapted to hold a tympan *h* solid against the same. To the lower bar of the said frame *g* is hinged a fly-frame C, which is adapted to be held in the position shown in Fig. 1 by a turn-button *i* and has for its purpose to hold the paper to be printed against the tympan *h*.

D D are arms loosely mounted on the shaft *d* and disposed at opposite ends of the cylin-

der B, and E E' are inking-rollers carried by the said arms and arranged in front and rear of the cylinder B.

In the practical operation of my invention the paper to be printed is placed under the fly-frame C, and the fly-frame is closed and fastened, after which the operator takes hold of spokes *f* of the cylinder and rolls the cylinder in the direction indicated by arrow, Fig. 1, so as to carry the paper over and press it against the forms *b*. After the paper is pressed, as stated, against the forms it is carried by the rolling cylinder to a point considerably above the bed A, when the fly-frame C is opened, the printed sheet removed, a fresh sheet fastened under the fly-frame, and the cylinder rolled back over the forms *b*—i. e., in the direction opposite to that indicated by arrow—when the described operation is repeated. Incident to the first-described movement of the cylinder the roller E' will take ink from one plate *c* and ink the forms *b*, while incident to the other or backward movement of the cylinder the roller E will take ink from the other plate *c* and supply the forms *b* with the same. The stops *a'* serve to engage the perimeter of the cylinder B and stop the same with the cylinder in positions to permit of printed sheets being readily removed from the fly-frame and replaced with fresh sheets.

It will be appreciated from the foregoing that notwithstanding the simplicity and cheapness of my improved press and the facility with which it may be operated, the press is adapted to do accurate and good work.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiment of my invention in order to impart a full, clear, and exact understanding of the same. I do not desire, however, to be understood as confining myself to such specific construction and relative arrangement of parts, as such changes or modifications may be made in practice as fairly fall within the scope of my invention as claimed.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a printing-press, a rolling impression-

cylinder, inking-rollers disposed in front and rear thereof, and arms connecting the inking-rollers and the opposite ends of the cylinder, and carrying the rollers, in combination with
5 a bed, having longitudinal guide-rails for the cylinder, a form secured on the bed, and ink-bearing plates disposed on the bed, at opposite sides of the form.

2. In a printing-press, a rolling impression-
10 cylinder, and inking-rollers carried by the cylinder and disposed in front and rear thereof, in combination with a bed having longitudinal guide-rails for the cylinder, a form secured on the bed, ink-bearing plates dis-
15 posed on the bed, at opposite sides of the form, and stops arranged on the bed, adjacent to the opposite ends thereof, and having upper surfaces which describe arcs of circles, and are adapted to engage the perimeter of the
20 impression-cylinder.

3. In a printing-press, a rolling impression-cylinder having spokes at one end, and carrying a central shaft, arms loosely mounted on and depending from said shaft, and ink-
25 ing-rollers carried by said arms, and disposed in front and rear of the cylinder, in combination with a bed having longitudinal guide-rails for the cylinder, a form secured on the

bed, ink-bearing plates disposed on the bed, at opposite sides of the form, and means for
30 limiting the movement of the cylinder in opposite directions.

4. In a printing-press, a rolling impression-cylinder having spokes, at one end, and a tympan-holding frame on its perimeter, and carrying a central shaft, a fly-frame hinged to
35 the tympan-holding frame, means for fastening the fly-frame closed, arms loosely mounted on and depending from the shaft of the cylinder, and inking-rollers carried by said
40 arms, and disposed in front and rear of the cylinder, in combination with a bed having longitudinal guide-rails for the cylinder, a frame secured on the bed, at opposite sides of the form, and stops fixed on the bed, adja-
45 cent to the opposite ends thereof, and having upper surfaces which describe arcs of circles, and are arranged to engage the perimeter of the cylinder.

In testimony whereof I have hereunto set
50 my hand in presence of two subscribing witnesses.

WILLIAM A. LOGUE.

Witnesses:

D. R. ADAMS,
E. REINHART.