

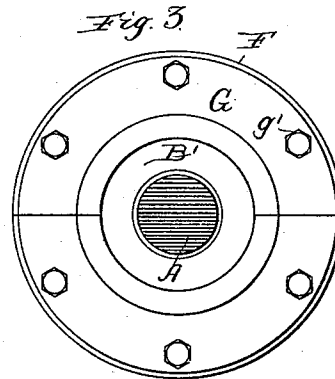
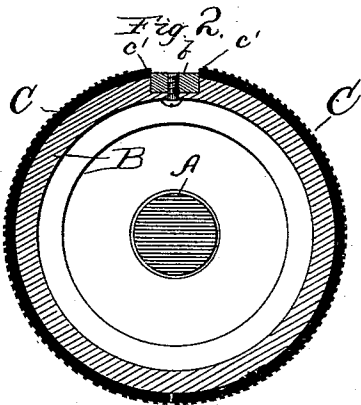
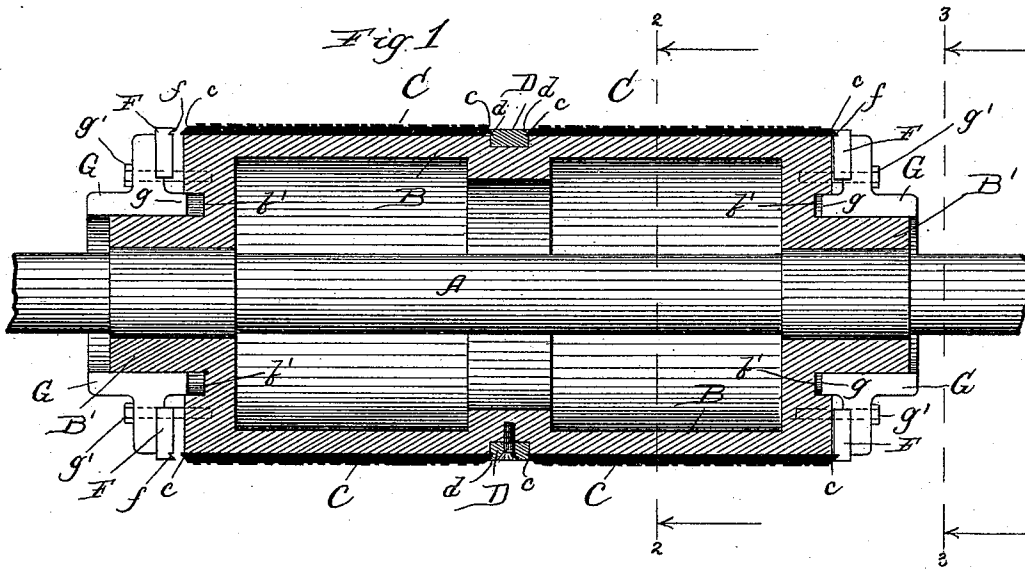
(No Model.)

J. J. CLAUSE.

PLATE HOLDER FOR PRINTING CYLINDERS.

No. 487,992.

Patented Dec. 13, 1892.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN J. CLAUSE, OF CHICAGO, ILLINOIS.

PLATE-HOLDER FOR PRINTING-CYLINDERS.

SPECIFICATION forming part of Letters Patent No. 487,992, dated December 13, 1892.

Application filed July 16, 1891. Serial No. 399,683. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. CLAUSE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Plate-Holders for Printing-Cylinders, of which the following is a specification.

My invention relates to devices for securing stereotype-forms to printing-cylinders.

Heretofore the devices employed for locking segmental cylindrical stereotype-forms to printing-cylinders have been so constructed that it was necessary to employ very thick and heavy stereotype plates or forms in order that they might be centered and held with the requisite firmness and accuracy.

The object of my invention is to provide a device for centering, locking, and holding segmental cylindrical stereotype-forms on printing-cylinders and which will hold and center the forms accurately and firmly when made comparatively thin and light.

To this end my invention consists in the novel devices and novel combinations of parts and devices herein shown and described, and more particularly pointed out in the claims.

In the accompanying drawings, which form a part of this specification, and in which similar letters of reference indicate like parts, Figure 1 is a central longitudinal section of a device embodying my invention. Fig. 2 is a transverse section on line 2 2 of Fig. 1, and Fig. 3 is an end view looking from the line 3 3 of Fig. 1. The sectional view, Fig. 1, is taken horizontally as to Fig. 3—that is to say, through the line joining the meeting ends of the half-rims G and F, hereinafter described.

In the drawings, A represents the shaft of a printing-cylinder B, and C C are the stereotype segmental plates secured thereon. The stereotype-plates C are provided with beveled rims c. The cylinder B is furnished with a band or ring D, rigidly secured thereto at or near its middle and having in its opposite edges dovetail grooves d to receive the beveled end or rim c of the stereotype segmental plates C C. The cylinder B is further provided with the usual longitudinal rib or shoulder b for the edges c' of the stereotype-seg-

ment C to abut against. At the ends of the cylinder B the segmental plates C are secured and centered by rings F, having dovetail grooves f to receive the beveled edge c of the plate C. The locking-rings F are carried by a reciprocating sleeve G, which slides upon the hub B' of the cylinder B and has a projecting rim g, which fits in an annular groove b' cut in the end of the cylinder B to receive the same. The sleeve G and locking-ring F are secured to the cylinder B by threaded bolts or screws g', which enter the end of the cylinder, or other suitable means may be employed for this purpose. As the grooved clamping or locking rings D and F embrace the whole circumferential edge or rim of the stereotype-plates at both ends, the stereotype-plates may be made thin and light and at the same time be held with the requisite firmness, rigidity, and accuracy. The stationary grooved clamping-ring D of course holds the edges of the stereotype-segment rigidly in proper position and accurately centered, and as the opposing clamping-ring F is carried by the sliding sleeve G, the rim g of which fits in an annular groove in the cylinder, this clamping-ring F is also accurately centered and firmly held. For convenience the sleeve G and clamping-rings F and D are split into halves and secured by bolts, as indicated. Where the printing-cylinder is short and only one cylindrical plate or form secured thereto instead of a pair, as indicated in the drawings, one of the grooved clamping-rings F or D may of course be omitted.

I claim—

1. A printing-cylinder furnished with means for locking segmental stereotype-plates or printing-forms thereto, consisting of a pair of grooved clamping-rings, one of said clamping-rings being secured in place by a sliding sleeve having a projecting rim fitting in an annular groove in the end of the cylinder, substantially as specified.

2. The printing-cylinder B, furnished with grooved clamping-ring D, hubs B' B', provided with annular grooves b' b', grooved clamping-rings F F, and sliding sleeves G G, having rims g, adapted to fit in said annular grooves b', said grooved clamping-rings D

and F F being adapted to engage the circumferential edges of the segmental stereotype-plates or printing-forms and lock the same in position on the cylinder, substantially as

5 specified.

3. The printing-cylinder B, having a pair of grooved clamping-rings adapted to engage the entire circumference of the segmental stereotype-plates or printing-forms at each
10 end thereof, one of said clamping-rings being carried by a sliding sleeve fitting on the hub of the cylinder, the said cylinder being provided with an annular groove in its end and said sliding sleeve having a ring adapted to
15 fit in said annular groove, and bolts extending through said sleeve and clamping-ring

into the end of the cylinder, substantially as specified.

4. A printing-cylinder furnished with means for locking segmental stereotype-plates 20 or printing-forms thereto, consisting of a pair of grooved clamping-rings, one of said clamping-rings being secured in place by a sliding sleeve having a projecting rim fitting in an annular groove in the end of the cylinder, 25 said sleeve and clamping-ring being split into segments, substantially as specified.

JOHN J. CLAUSE.

Witnesses:

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