

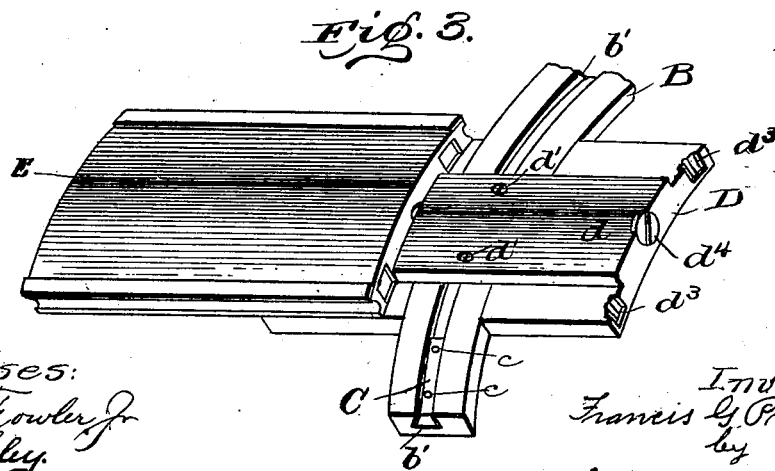
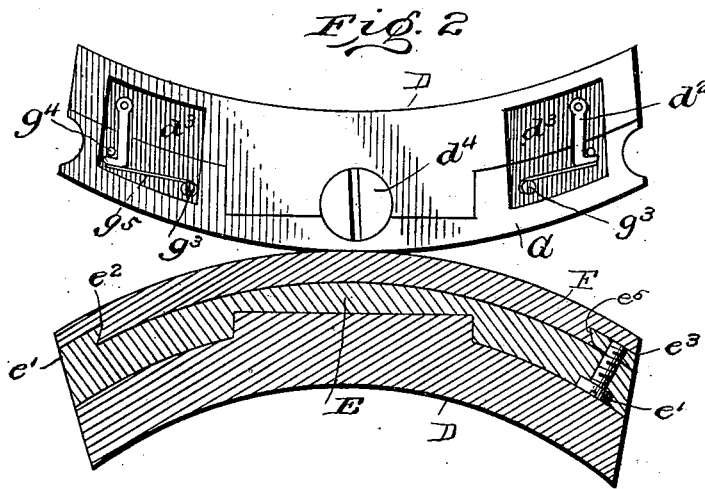
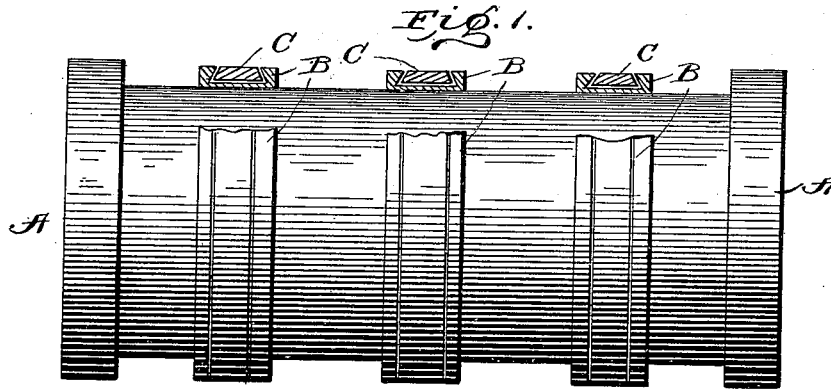
F. G. PRICE.

HOLDER FOR PRINTING PLATES AND IMPRESSION SURFACES.

(No Model.)

(Application filed June 25, 1900.)

2 Sheets—Sheet 1.



witnesses:  
J. M. Fowler Jr.  
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No. 676,513.

Patented June 18, 1901.

F. G. PRICE.

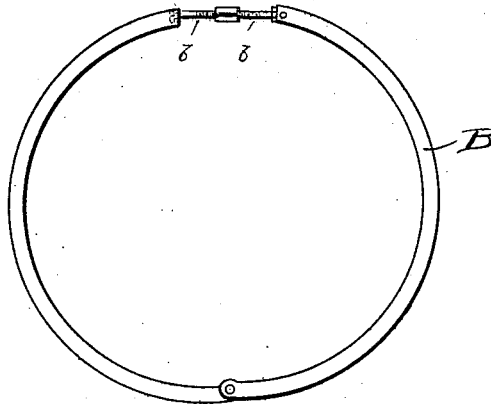
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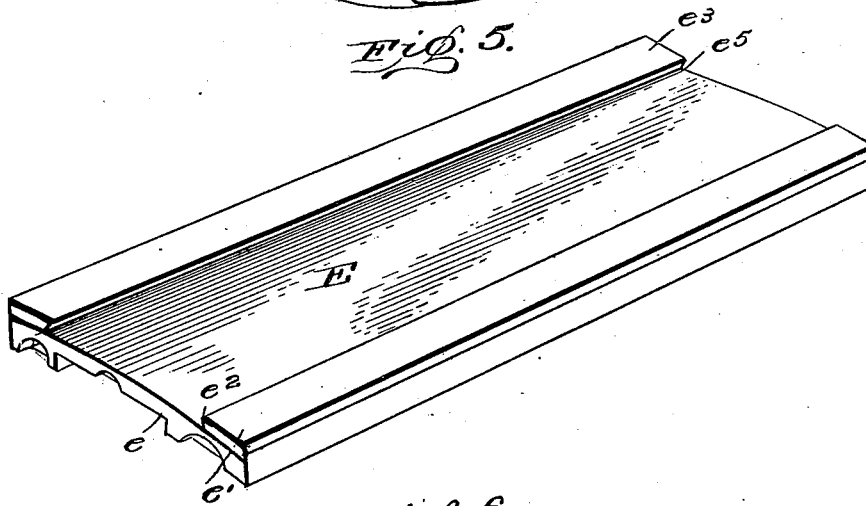
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2 Sheets—Sheet 2.

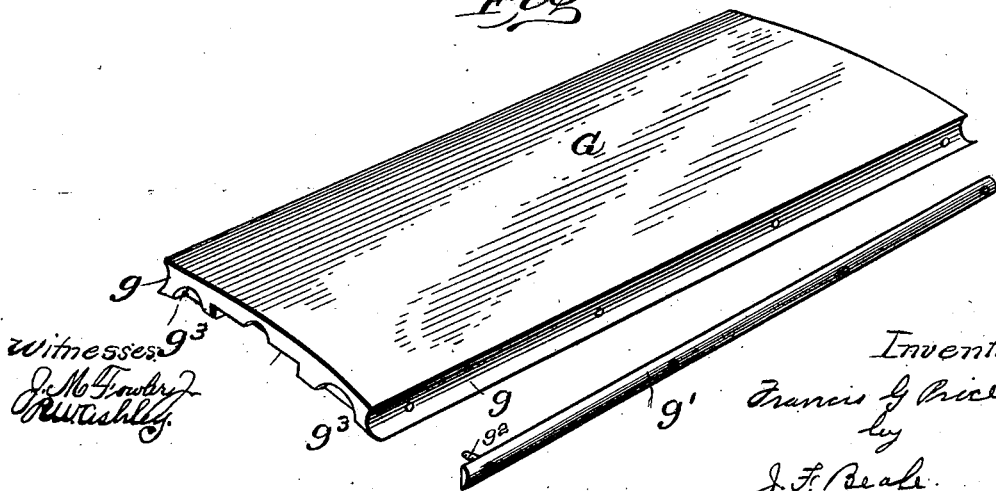
*Fig. 4*



*Fig. 5.*



*Fig. 6.*



witnesses  
*J. M. F. T. & Co.*  
*Printers*

Inventor  
*Francis G. Price*  
by  
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# UNITED STATES PATENT OFFICE.

FRANCIS G. PRICE, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF  
TO LOUIS T. WEIS, OF SAME PLACE.

## HOLDER FOR PRINTING-PLATES AND IMPRESSION-SURFACES.

SPECIFICATION forming part of Letters Patent No. 676,513, dated June 18, 1901.

Application filed June 25, 1900. Serial No. 21,416. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS G. PRICE, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Holders for Printing-Plates and Impression-Surfaces; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to provide adjustable means for holding in printing relation upon the form and impression cylinders of a rotary printing-press a series of printing-plates composing a divided form and a like series of impression-surfaces having means for securing the packing in divisions corresponding to the divided form.

In the accompanying drawings, forming a part of this specification, Figure 1 is a front elevation of a cylinder detached, which represents either a form or impression cylinder having ribs attached running circumferentially of the same. Fig. 2 is an end view in section of one of the blocks for the form-cylinder and an end view of one of the impression-plates for the impression-cylinder, said parts being mounted upon base-plates and assembled in printing relation, but detached from their respective cylinders, the block having an electrotpe or stereotype plate attached. Fig. 3 is a diagrammatic view in perspective, showing relation of the ribs, base-plates and impression-plates, and blocks. Fig. 4 is a side elevation showing means for attaching the ribs to the cylinders. Fig. 5 denotes one of the blocks for the form-cylinder detached, and Fig. 6 one of the impression-plates for the impression-cylinder detached.

Referring more particularly to the drawings, A denotes a cylinder, which represents either a form or an impression cylinder of a rotary printing-press having ribs B B B, secured to the surface of the cylinder between the cylinder-bearers, the bearers being raised above said surface, as shown in the drawings. The ribs run circumferentially of the cylinder and, as shown in Fig. 4, are hinged at the middle. The ends of said ribs are pro-

vided with bolts *b b*, and said bolts have a two-way-threaded nut for drawing the ends of the ribs together and clamping them tightly upon the cylinder.

*b'* denotes a dovetail groove in the ribs provided with sliding blocks C, having threaded holes *c* therein.

D denotes one of a series of base-plates having a channel formed on its under side by which it is mounted on one of the ribs B, as shown in Fig. 3. Said plates are designed to be attached to ribs B either on the form or impression cylinders and serve as an adjustable and detachable base or support for attaching blocks to the form-cylinder and also for attaching impression-plates for the impression-cylinder, as hereinafter described.

*d* denotes a rib formed on the upper side of said plate, provided with screws *d' d'*, which engage threaded holes *c* in the block C.

*d<sup>2</sup>* denote latches placed in recesses *d<sup>3</sup>*, formed in the ends of the base-plates, as shown in Fig. 2.

*d<sup>4</sup>* denotes a screw placed in each end of the rib *d*, a portion of the head of which is countersunk in said ends, while the other portion of the screw-head projects above the rib *d* and registers with a recess formed in the ends of a block E, as shown in Fig. 3, or in the ends of an impression-plate, as shown in Fig. 2. The purpose of said screw is to hold either of said plates from endwise play on the base-plates D and also to afford a slight endwise adjustment for the blocks and impression-plates on said base-plates. This adjustment is accomplished by tightening a screw at one end of the base-plate and loosening the screw at the opposite end, thus forcing the block or impression plate lengthwise of the ribs *d*.

E denotes one of a series of blocks with which I equip the form-cylinder and which are secured in place thereon by means of the adjustable ribs and base-plates before mentioned. These blocks are designed to receive the form, which is made up of a series of electrotpe or stereotype plates, which plates are made to fit the face of said blocks and are held in place by means hereinafter mentioned. Said block E has a channel *e* running lengthwise thereof upon its under side

by which it is adjustably and detachably mounted on the rib  $d$  of one of the base-plates.  $e'$  denotes a ledge formed upon the upper side of said block, having its inner edge  $e^2$  beveled or cut under, as shown in Figs. 2 and 5.  $e^3$  denotes a detachable metal strip corresponding in shape and proportion to the ledge  $e^2$  and secured to the upper side of said block by screws  $e^4$ , which pass through from its under side, where the heads of the screws are countersunk, as shown in Fig. 2, into threaded holes formed in the under side of the strip  $e^3$ . The inner edge  $e^5$  of said strip is also beveled to correspond with the beveled edge of the ledge  $e'$ , as shown in Fig. 5.

$F$  denotes an electrotpe or stereotype plate having recesses in its under edges which register with the beveled edges of the ledge  $e'$  and strip  $e^3$ , forming a dovetail joint for holding the plate in position upon the block  $E$ . The strip  $e^3$  and its retaining-screws  $e^4$  form a detachable connection for said plate to the face of the block  $E$ , as shown in Fig. 2. Said blocks are provided with fastenings, by which they are secured to the base-plates, and as like fastenings are used for securing the impression-plates to the base-plates a description of the same will appear hereinafter.

$G$  denotes one of a series of impression-plates for the impression-cylinder, having a channel running lengthwise thereof upon its under side by which it is adjustably and detachably mounted to a rib  $d$  of one of the base-plates.

$g g$  denote grooves formed in the front and back edges of the impression-plates provided with clamping-strips  $g'$ , as shown in Fig. 6, which strips are made smaller than the grooves to allow room for the edges of the packing to be clamped between and bring the strips flush with the edges of the impression-plate. Said strips are secured in the grooves by screws  $g^2$ , which pass through screw-holes in said strips and grooves.

It will be seen that the base-plates for the impression-cylinder and form-cylinder are identical in construction, as are likewise the ribs on said cylinders to which said plates are adjustably and detachably secured. Again, the blocks  $E$  for the form-cylinder and the impression-plates for the impression-cylinder are secured to the base-plates in like manner. Therefore a description of the means for fastening the impression-plates will answer for both. The impression-plate is placed on top of the base-plate, the channel upon its under

side registering with the rib  $d$  on the base-plate and the recess  $g^3$  at each end of the impression-plate registering with the recess  $d^3$  in the base-plate. The latches  $d^2$  are then fastened over catches  $g^4$  and held in place by springs  $g^5$ . The screws  $d^4$  are then tightened at each end to prevent endwise play of the impression-plate on the rib  $d$ .

It is evident that by my arrangement of a subdivided form and making each plate thereof independent of the other plates or separately adjustable and detachable I dispense with all material known to the trade as "furniture"—leads, reglets, quoins, and all spacing material. Again, in the subdivision of the packing I provide means whereby changes may be made quickly in any one section without affecting other sections of the packing.

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

1. In a rotary printing-press, the improvement in holders for printing-plates composing a divided form, consisting of a series of ribs embracing the form-cylinder and adjustable lengthwise thereof, a series of base-plates mounted upon said ribs and adjustable thereon circumferentially of said cylinder, and a series of blocks mounted upon said base-plates having means for attaching said series of printing-plates.

2. In a rotary printing-press, the improvement in holders for impression-surfaces, consisting of a series of ribs embracing the impression-cylinder and adjustable lengthwise thereof, a series of base-plates mounted upon said ribs and adjustable thereon circumferentially of said cylinder, and a series of impression-plates mounted upon said base-plates having means substantially as described for securing the packing thereto.

3. In a rotary printing-press, the improvement in holders for printing-plates and impression-surfaces therefor, consisting of duplicate series of plates one of which series is provided with clamps for the printing-plates and the other series of plates with clamps for the packing and like means for adjustably securing said plates to the form and impression-cylinders.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCIS G. PRICE.

Witnesses:

CHARLES MASBACH,  
HENRIETTA WHITEHILL.