

1,036,629.

Patented Aug. 27, 1912.

FIG. 1.

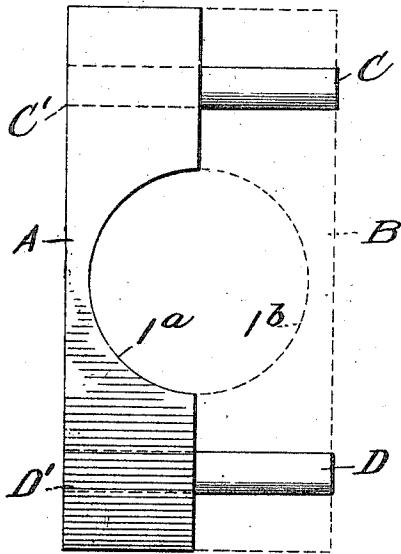


FIG. 2.

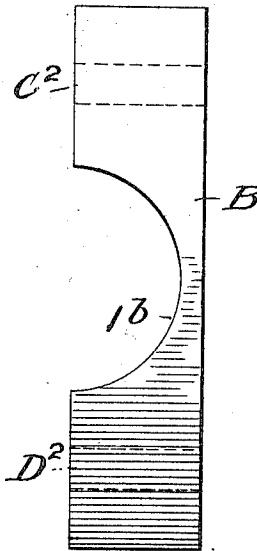


FIG. 3.

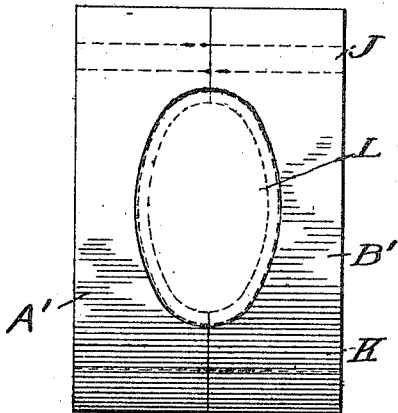
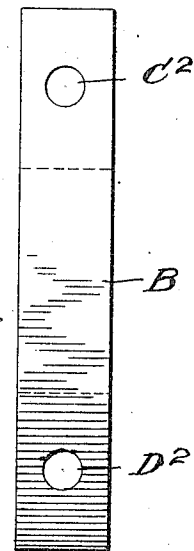


FIG. 4.

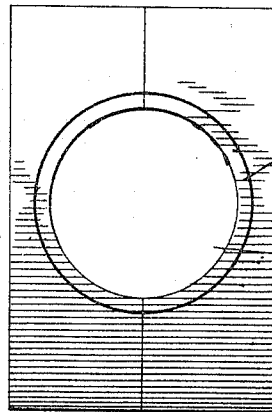


FIG. 5.

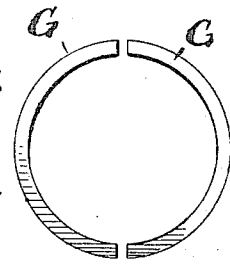


FIG. 6.

WITNESSES:

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LOCKING DEVICE FOR FORMS.

1,036,629.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed April 13, 1912. Serial No. 690,648.

To all whom it may concern:

Be it known that I, THOMAS H. IRVIN, a citizen of the United States, and a resident of College Station, in the county of Brazos and the State of Texas, have invented certain new and useful Improvements in Locking Devices for Forms, of which the following is a specification.

An object of my invention is to provide a new locking device of such a form that when locked about circular or oval type forms, it will not jam the sides of said form, thus overcoming the numerous objections to the old form of locking means when used in connection with circular forms. Among these objections are the jamming of the sides of the form which causes destruction thereof. Evidently also the use of the old type results in inconvenience to the stone man and consequent loss of time to the entire printing plant.

Other objects and advantages will appear as the description proceeds.

Broadly my invention comprises two corresponding die-parts held in operative relation to the form by dowel pins, the pin-receiving aperture provided in the die being circular, oval or polygonal in shape.

Proceeding now to a detailed description reference is made to the accompanying drawings in which:—

Figure I. is a plan view of one of the sections, the co-acting section being indicated in dotted lines; Fig. II. is a plan view of the other section; Fig. III. is an edge view of one section; Fig. IV. is a view of two assembled sections of a modified form; Fig. V. is a plan view of a die and its inclosed form; Fig. VI. is a plan view of one of the leads I may use.

Like characters refer to the same parts throughout the several views.

The die consists of two parts A and B adapted to be held together by dowel pins C and D inserted in suitable alining bores C¹ and C², and D¹, D². These bores being provided in the sections with their longitudinal axes at an angle to the like axis of the form aperture referred to herein-after. The sections are formed each with a semi-cylindrical recess 1^a and 1^b respectively, so that when they are assembled a cylindrical bore is provided, this bore is for the reception of the forms.

On assembling, the form X is placed upon

a suitable support and the sections fitted about it and fastened by the dowel pins. In case the diameter of the form is less than that of the bore 1^a, 1^b, I use in pairs, suitable leads or slugs G, G¹, each lead being a half annulus and of the same thickness as its mate (see Fig. VI), and of such thickness as is necessitated by the circumstances. On Fig. V, is shown a die and form with one pair of slugs there-between, but it is obvious that as many pair of slugs may be used as advisable.

My invention also contemplates the use of dies providing an oval form-receiving opening and this form is shown in Fig. IV where two die parts A¹, B¹ held by dowel pins J and K and furnishing the oval form opening L are shown, otherwise the arrangement is like that just described. Each die-part opening is of course a half oval of the same dimensions as its mate.

It will be seen that my invention contemplates dies with form-receiving openings of various polygonal shapes as the circular opening shown is of course but a polygon of an infinite number of sides.

Having now fully described my invention and set forth some of its advantages, I proceed to claim it, it being understood that I consider all equivalent constructions falling within the scope of the appended claims as my invention:—

1. A form locking device comprising in combination two corresponding sections, each formed intermediate its ends with a semi-cylindrical recess and a plurality of dowel pin receiving bores, extending there-through, the longitudinal axes of the bores being at angles to that of the recess; the spacing of the various recesses being such that when the sections are assembled a cylindrical form receiving aperture is formed and corresponding dowel pin bores are in alinement, and dowel pins for said bores whereby the sections may be brought into intimate contact to encompass the form.

2. A form locking device, comprising in combination two corresponding sections, each formed intermediate its ends with a semi-cylindrical recess and a plurality of dowel pin receiving bores extending there-through, the longitudinal axis of the bores being at right angles to that of the recess; the spacing of the various recesses being such that when the sections are assembled a

cylindrical form-receiving aperture is formed and corresponding bores are in alignment, dowel pins for said bores whereby the sections may be brought into intimate contact to encompass the form, and a plurality of semi-annular leads interposed between the form and said sections.

3. A form locking device comprising in combination two corresponding sections, each formed intermediate its ends with a semi-polygonal recess and a plurality of dowel pin receiving bores extending there-through, the longitudinal axis of the bores

being at right angles to that of the recess; the spacing of the various recesses being such that when the sections are assembled a polygonal form-receiving aperture is formed and corresponding bores are in alignment, and dowel pins for said bores whereby the sections may be brought into intimate contact to encompass the form.

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Witnesses:

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