

(No Model.)

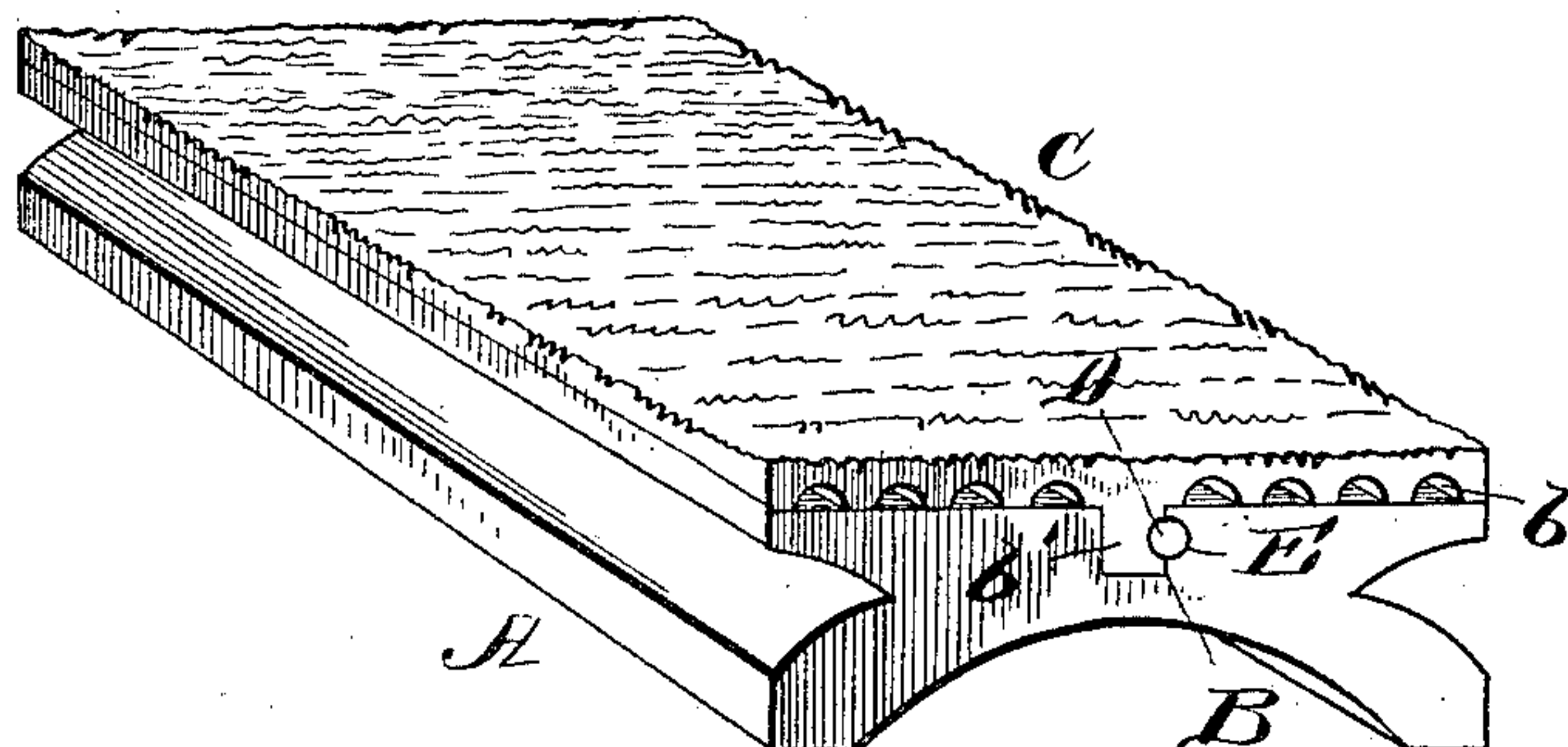
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STEREOTYPE PLATE AND BASE WITH LOCKING DEVICE.

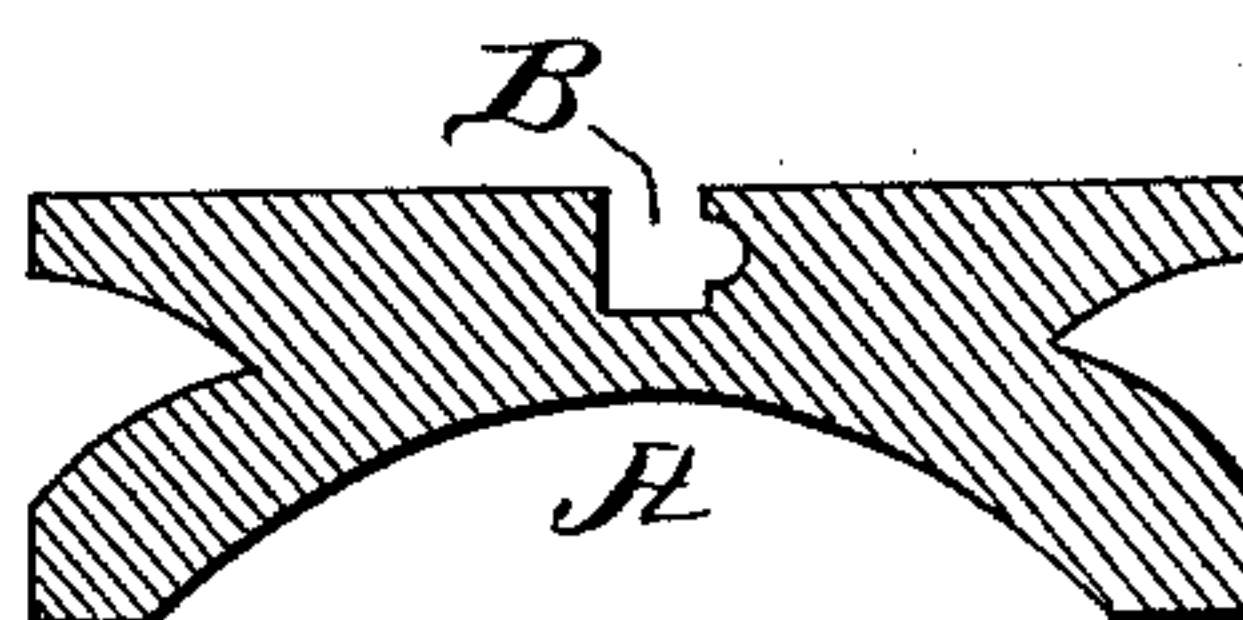
No. 462,764.

Patented Nov. 10, 1891.

*Fig. 1.*



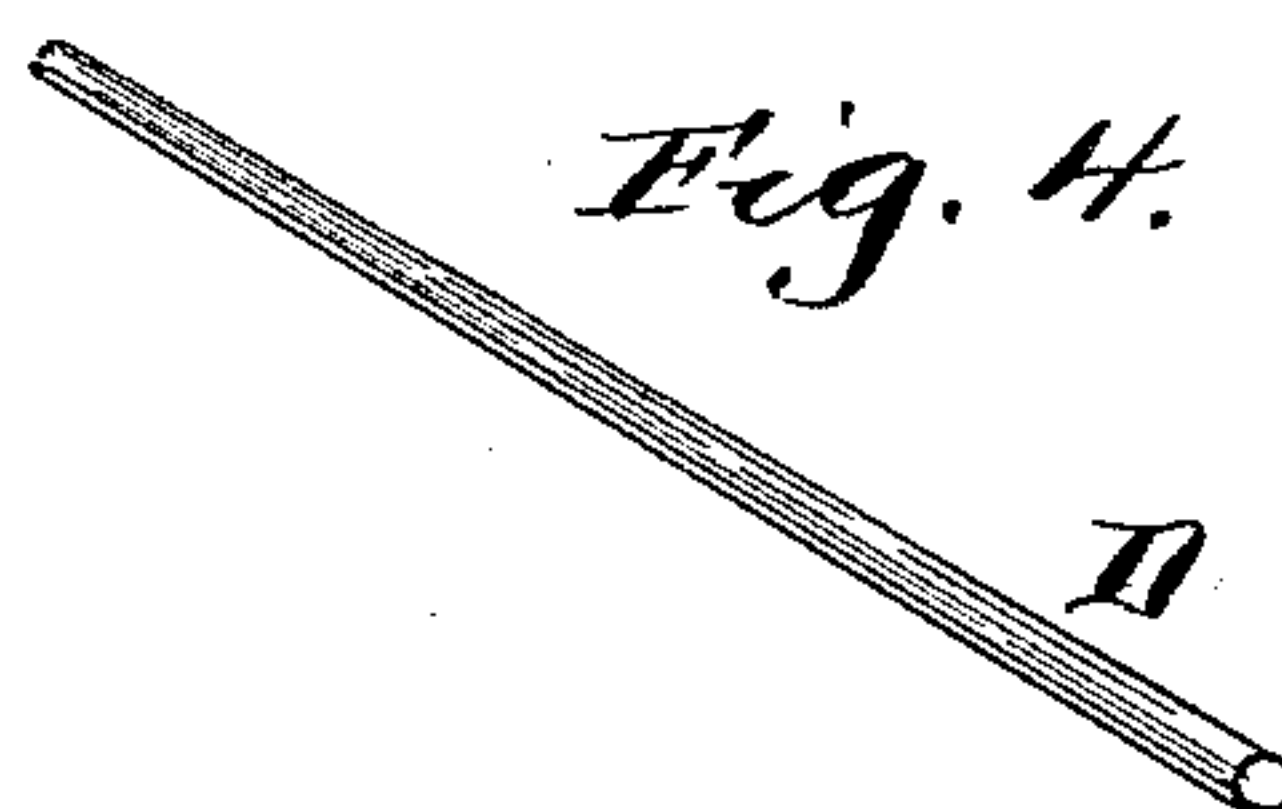
*Fig. 2.*



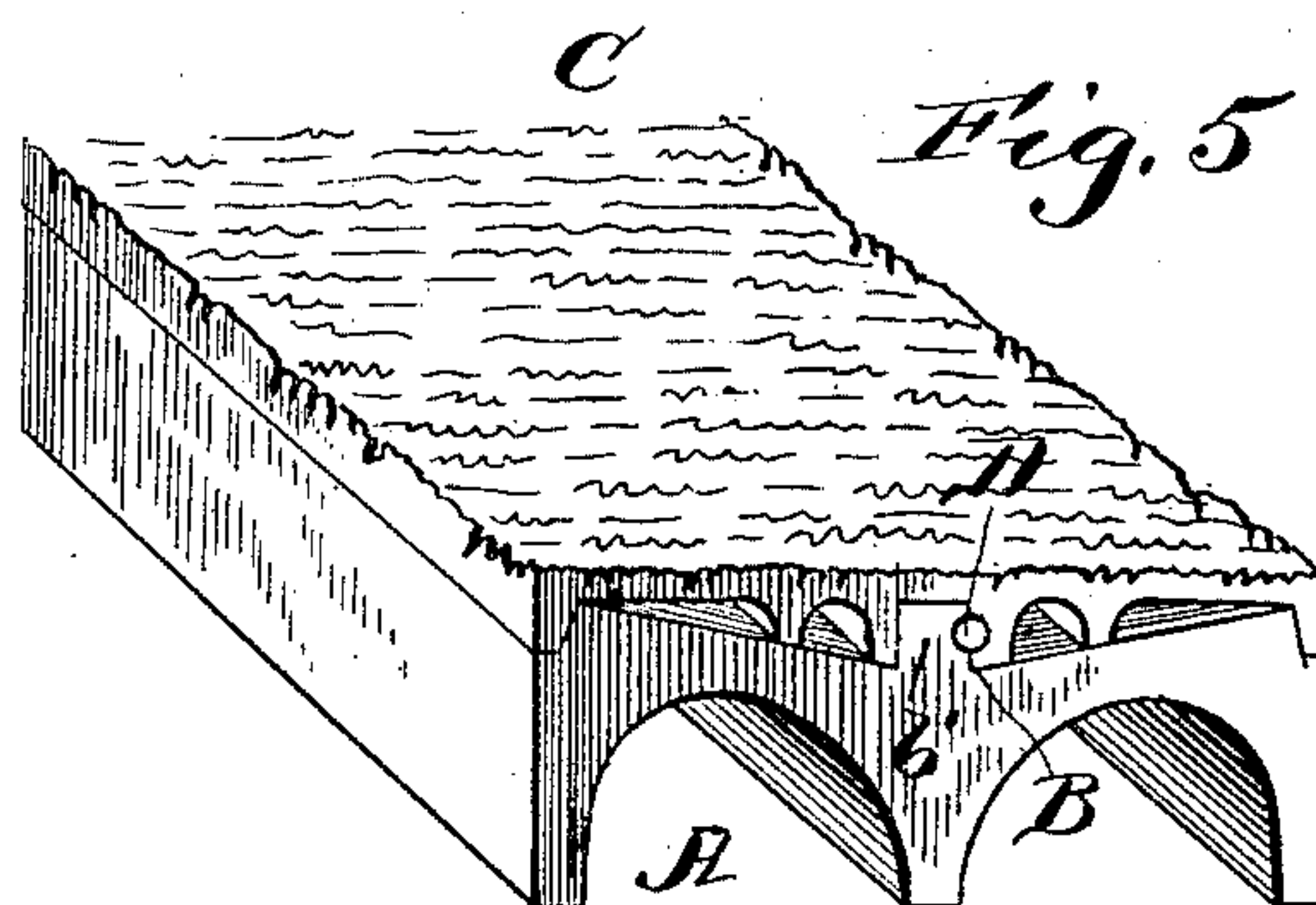
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

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## STEREOTYPE PLATE AND BASE WITH LOCKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 462,764, dated November 10, 1891.

Application filed February 14, 1891. Serial No. 381,457. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN FRANKLIN HARRIS, Jr., a citizen of the United States, residing at Champaign, in the county of Champaign and State of Illinois, have invented certain new and useful Improvements in Stereotype-Plate and Base with Locking Device; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in stereotype plates and bases and devices for locking the same firmly together; and the object of the invention is to provide a plate which can be put in place on the base by a movement substantially at right angles to the surface of the base; and a further object of the invention is to provide an improved locking device whereby the plate can be securely locked in position on the base and held against lateral movement, whereby the weight of the plate can be diminished.

With these and other ends in view my invention consists of the construction and arrangement of parts, as will be hereinafter fully described and claimed.

To enable others to understand my invention, I have illustrated the same in the accompanying drawings, in which—

Figure 1 is a perspective view of a stereotype plate and base constructed and secured together in accordance with my invention. Fig. 2 is a transverse sectional view of the base. Fig. 3 is a similar view of the plate. Fig. 4 is a detail view of the locking-pin. Fig. 5 is a view of a modified form of the invention.

Like letters of reference denote corresponding parts in all the figures of the drawings, referring to which—

A designates the base-plate, which is preferably made quite heavy, and in the upper surface of this base is formed a longitudinal

groove or recess B, which is of the same or greater width at the top than at the bottom.

C designates the plate proper, which is preferably made comparatively thin, and is provided on its upper surface with a series of longitudinal grooves or corrugations *b* and with a central depending rib or projection *b'*, extending longitudinally of the plate and conforming in cross-section to the shape of the groove B, in which it is adapted to fit when the plate C is placed in position on the said base.

The plate C is held in place and tightly locked with the base A by means of a locking-pin D, made of any suitable material, which fits in a longitudinal passage E, formed in opposing faces of the rib *b'* and the groove B. This passage and the locking-pin are of any desired shape in cross-section, they being shown round in the drawings.

In Fig. 5 of the drawings I have illustrated a modified form of my invention, in which the base-plate is provided with an upwardly-extending rib, which is fitted in a suitable groove or recess formed in the under surface of the plate C.

Among the advantages of my invention, which will be readily understood and appreciated by those skilled in the art to which the invention relates, may be mentioned the following, to wit:

The construction herein shown and described enables the printer to place the plate directly on the base, and it obviates the necessity of using column-rules for the purpose of holding the plate in position.

Further, my improved locking device prevents the slightest lateral movement or play of the plate on the base, which is one of the great objections to the forms now in use.

Another advantage of my invention is that it dispenses with the necessity of furnishing special column-rules with the plates.

I am aware that it is old to provide a base having brass spring-plates secured to its sides and projecting upwardly and inwardly to clasp and hold the stereotype-plate on the base. This construction, however, while it



permits the plate to be sprung in from above, is objectionable, because it is expensive to manufacture and keep in repair, these plates being easily broken off or their edges bent out of position in the using thereof.

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

The combination of a stereotype-base, a plate resting thereon, a tongue-and-groove connection intermediate of the base and the

plate and provided with a longitudinal passage in opposing sides thereof, and a longitudinal locking-pin fitted in said passage, substantially as shown and described.

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

BENJAMIN FRANKLIN HARRIS, JR.

Witnesses:

JOS. FORREST,

ARTHUR L. BRYANT.