No. 785,200. PATENTED MAR. 21, 1905.

L. A. COSTIGAN.

BINDER FRAME FOR TYPE PAGES.

APPLICATION FILED DEC. 12, 1904.

Fig. 1.

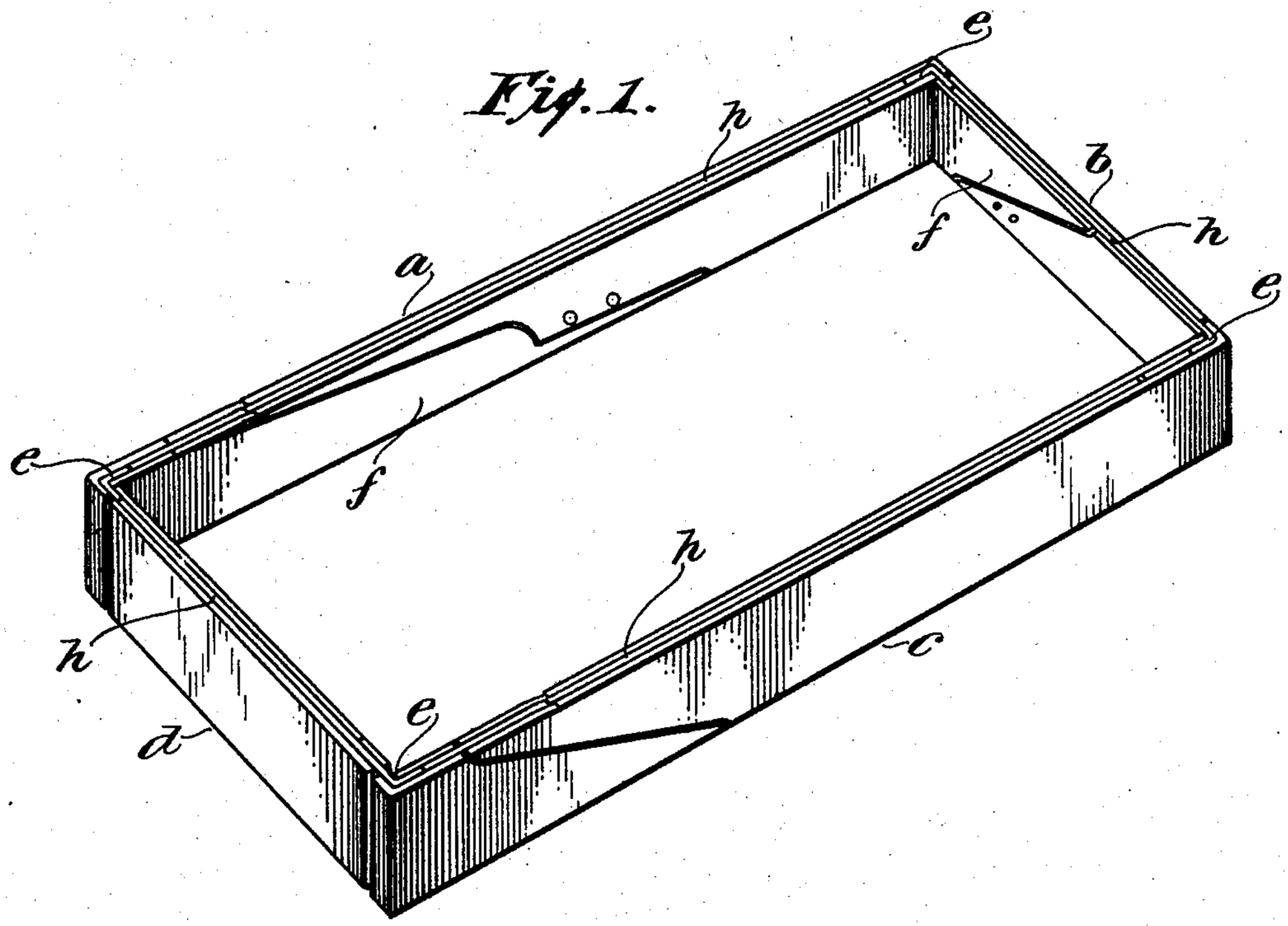


Fig. 2.

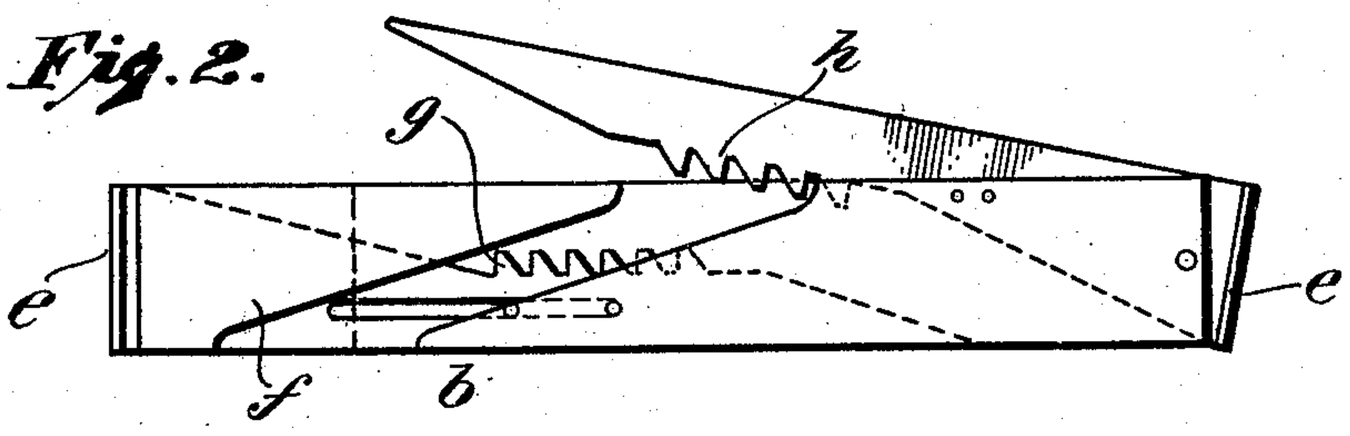
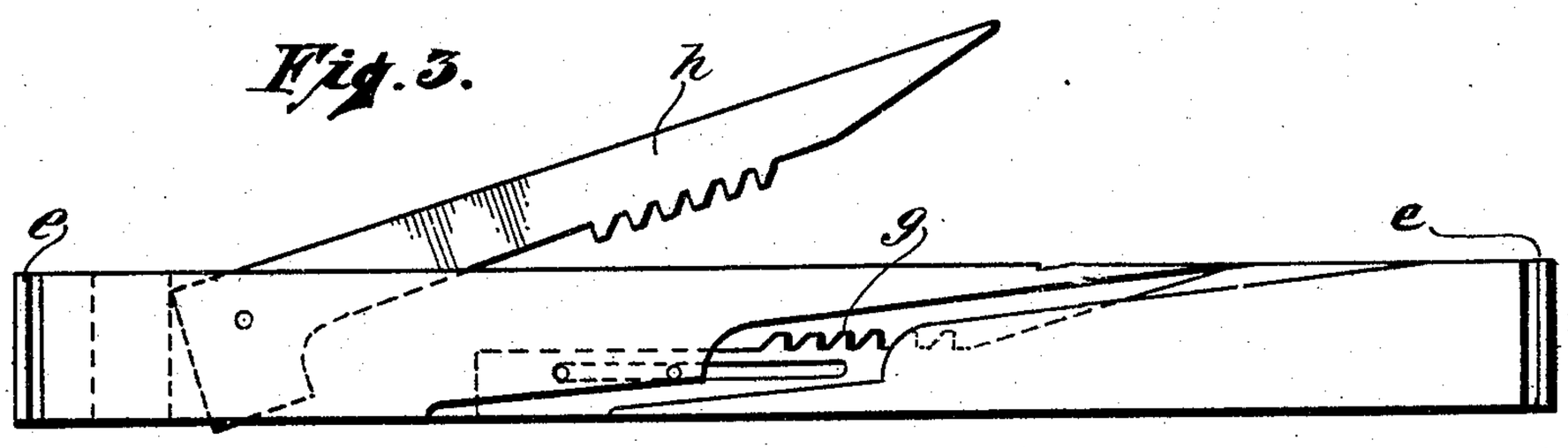


Fig. 3.



WITNESSES:

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No. 785,200. Patented March 21, 1905.

UNITED STATES PATENT OFFICE.

LAWRENCE A. COSTIGAN, OF PHILADELPHIA, PENNSYLVANIA.

BINDER-FRAME FOR TYPE-PAGES.

SPECIFICATION forming part of Letters Patent No. 785,200, dated March 21, 1905.

Application filed December 12, 1904. Serial No. 236,514.

To all whom it may concern:

Be it known that I, LAWRENCE A. COSTIGAN, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Binder-Frames for Type-Pages, of which the following is a specification.

The present invention has relation to that class of devices calculated to replace cords or strings that are usually employed to temporarily bind or hold together a page of type prior to its being secured in the printer's chase.

The principal object of the invention may be said to be to provide a simple, effective, durable, and comparatively inexpensive clamp or binder-frame for type.

Another object is to provide a frame that is adjustable and capable of being separated to occupy comparatively small space.

The invention consists of the improvements hereinafter described and finally claimed.

The nature, characteristic features, and scope of the invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a perspective view of the binder-frame embodying the invention. Fig. 2 is a side elevational view of one of the sections shown in Fig. 1, and Fig. 3 is a similar view of a modified form of section.

Referring to the drawings, the binder-frame is shown as comprising four sections *a*, *b*, *c*, and *d*, which may be of metal and of any preferred size. These sections are of rectangular configuration, and their respective ends are suitably grooved and tongued, as at *e*, in order to insure the several sections being readily assembled and separated. The respective sections are provided, generally speaking, at one end thereof with a slidable member *f*, equipped with a rack *g*, which in turn has slot-and-pin connection with the section proper. (See Fig. 2.) Pivotally connected at the opposite ends of the respective sections are racks *h*, adapted to normally engage with the racks *g*. As shown, the pivotal rack forms part of the tongue-and-grooved portions *e*. In the drawings five teeth are shown in each rack, each tooth representing a size in the printer's art, so that the frame as a whole is capable of expanding ten sizes, five laterally and five longitudinally.

In using the device the dimensions of the page of type to be clamped is proportioned upon the binder-frame, and the respective sections are regulated accordingly by releasing the pivotal racks *h*, moving the slidable members *f* the required distance and returning the pivotal rack to engagement with the slidable rack. Obviously in case of connection or insertion of additional type the above-described adjustability affords a most convenient mode of procedure. For instance, both a lateral and longitudinal adjustability is secured, which is advantageous.

In the modification shown in Fig. 3 the rack *h* is pivoted intermediate of the ends of the sections instead of the extreme end, as shown in Figs. 1 and 2.

The above-described device after having been adjusted to a page of type is fitted within what is generally termed a "lock-up" of a form and remains therein during the printing and is not removed from the page of type until the said type is ready for distribution. Obviously there is a saving of time by this method.

It will be obvious to those skilled in the art to which the invention relates that modifications may be made in detail without departing from the spirit thereof. Hence I do not limit myself to the precise construction and arrangement of parts therein shown.

Having thus described the nature and objects of the invention, what I claim as new is—

1. A binder for type-pages, comprising a number of sections having tongued-and-grooved connections with each other, said sections being provided with slidable members having rack-bars and auxiliary pivotal rack-bars adapted to engage said slidable members, substantially as described.

2. A binder for type-pages, comprising a rectangular frame consisting of sections having tongued-and-grooved connection with each other, said sections consisting of slidable and fixed members, whereof the slidable member is provided with a rack and slot-and-pin con-

nection, and whereof the fixed part is provided with an auxiliary rack pivoted at one of its outer ends, substantially as described.

3. A binder for type-pages comprising a rectangular frame consisting of sections having tongued-and-grooved connection with each other, said sections consisting of slidable and fixed members, whereof the slidable member is provided with a rack and slot-and-pin connection, and whereof the fixed part is provided with an auxiliary rack pivoted at one of its outer ends, substantially as described.

4. A binder for type-pages comprising a rectangular frame consisting of sections having tongued-and-grooved connection with each other, said sections comprising fixed and slidable members, the said slidable members being equipped with rack-bars, and auxiliary rack-bars pivoted to the fixed members, intermediate of their ends, substantially as described.

In testimony whereof I have hereunto set my hand and seal this 7th day of December, 1904.

LAWRENCE A. COSTIGAN. [L. S.]

Witnesses:
WILLIAM GOLDEN,
WM. R. LIEDIKE.