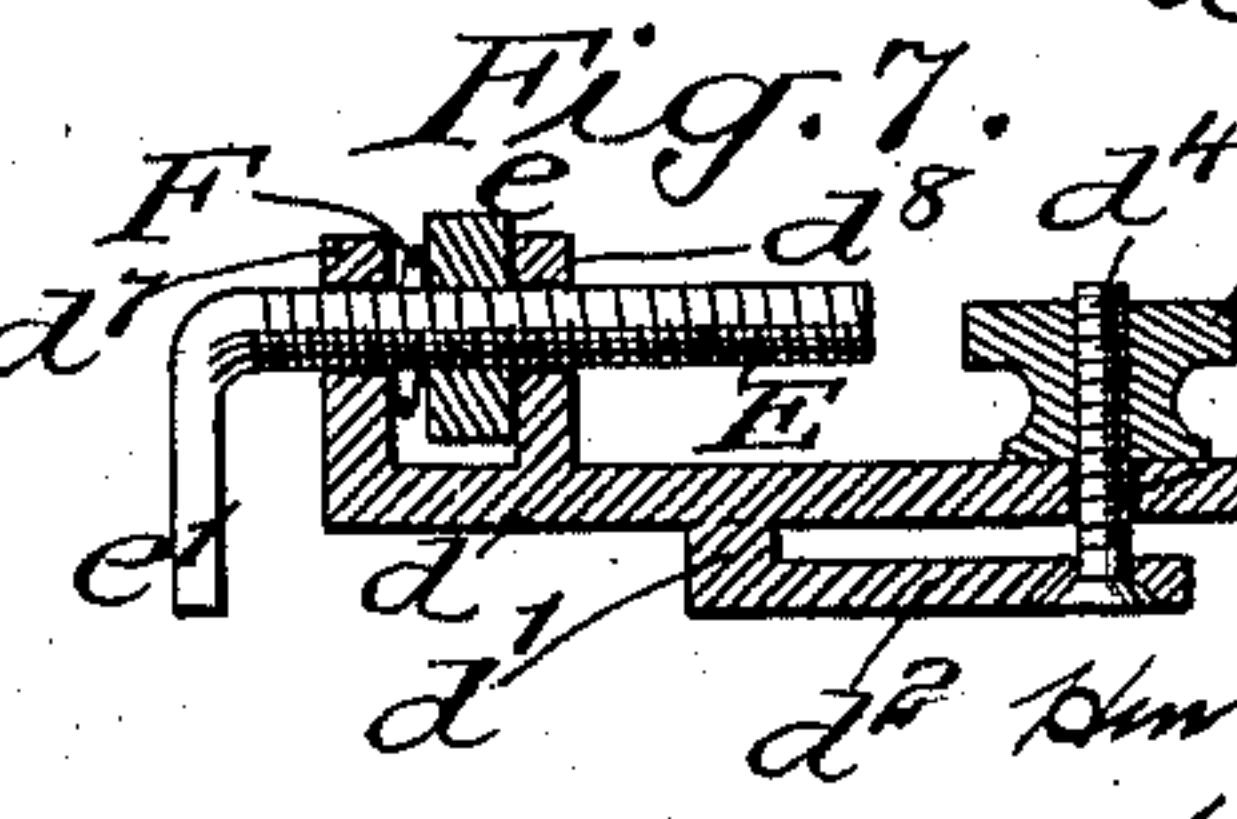
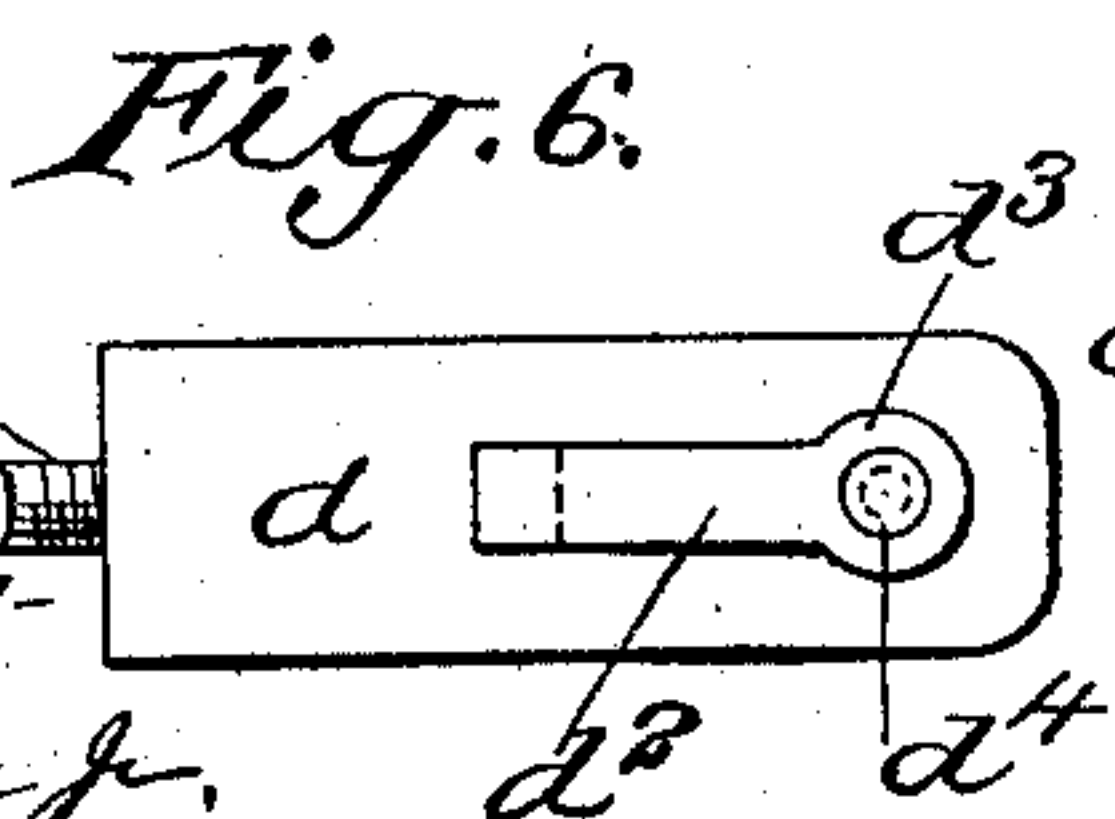
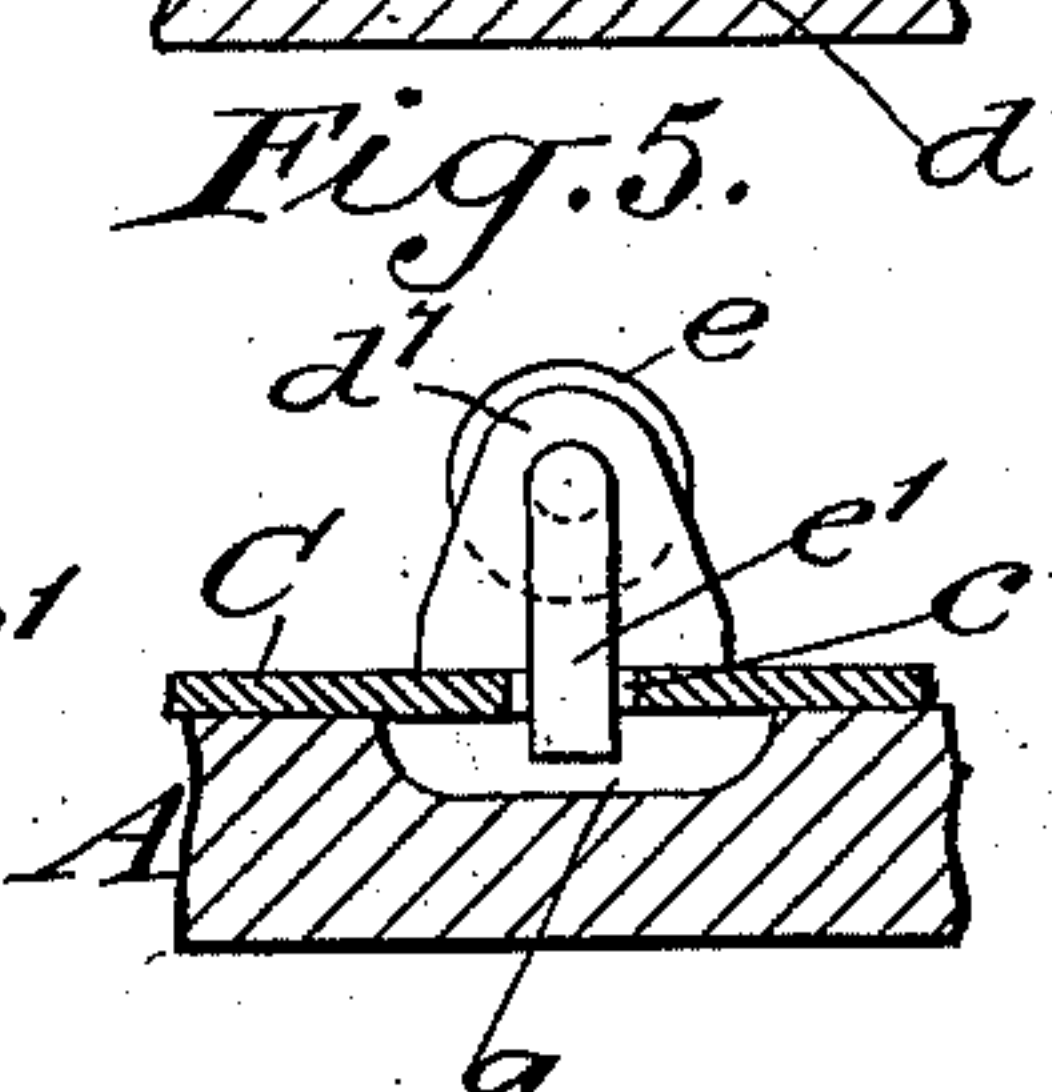
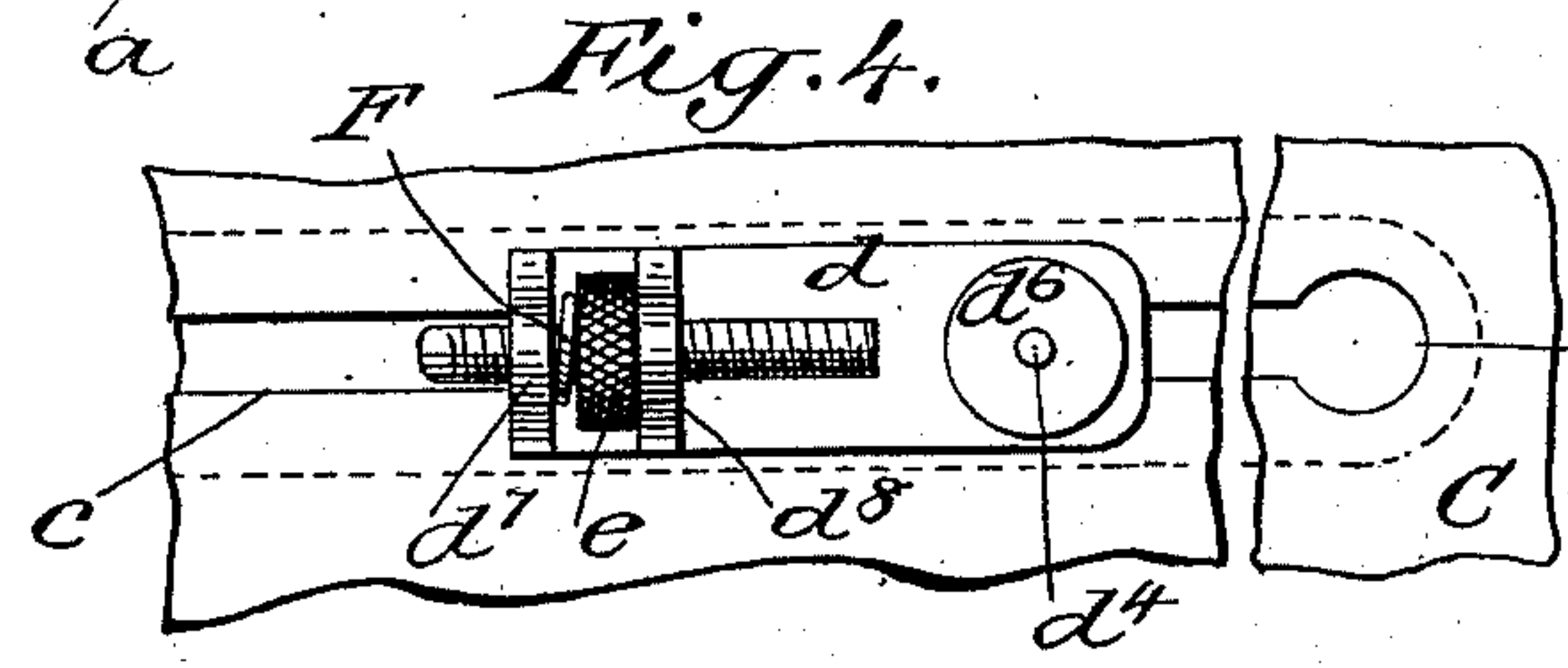
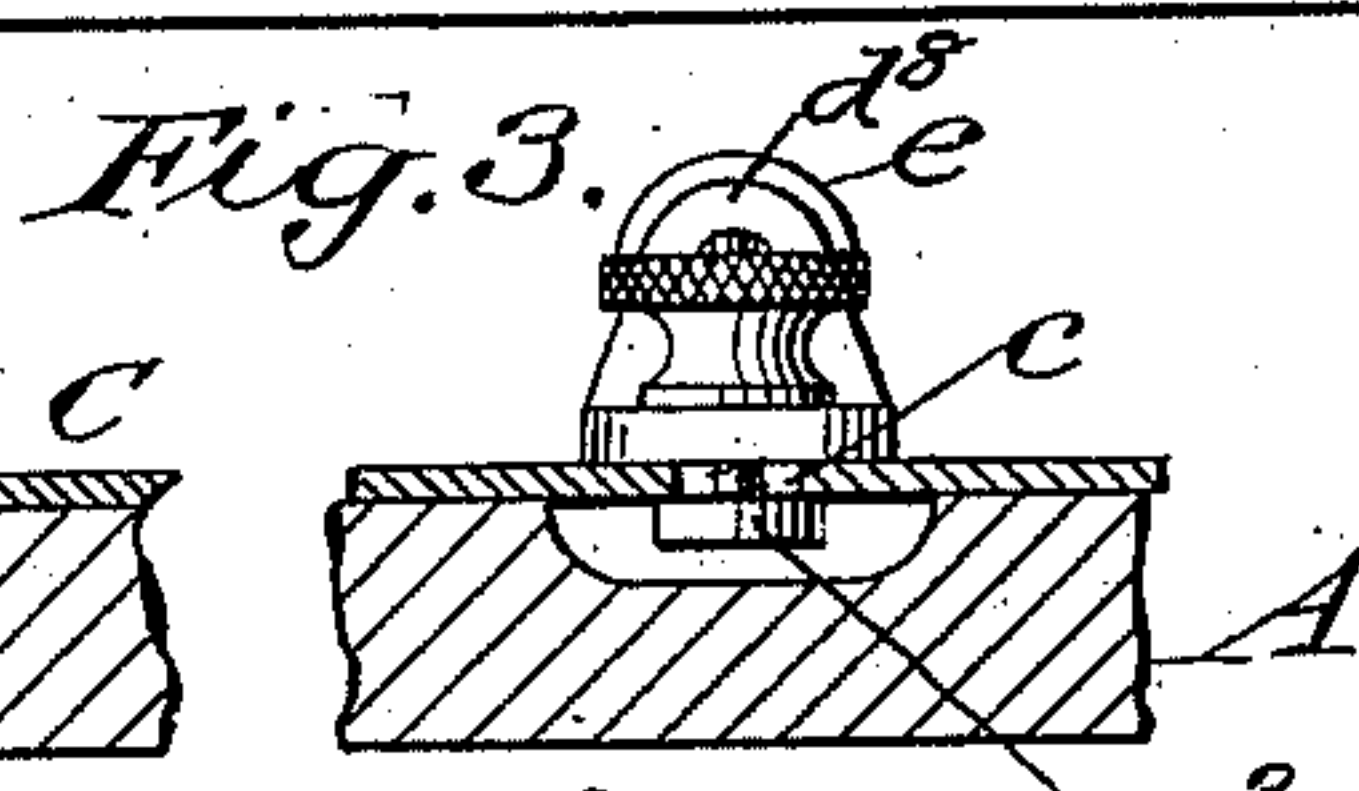
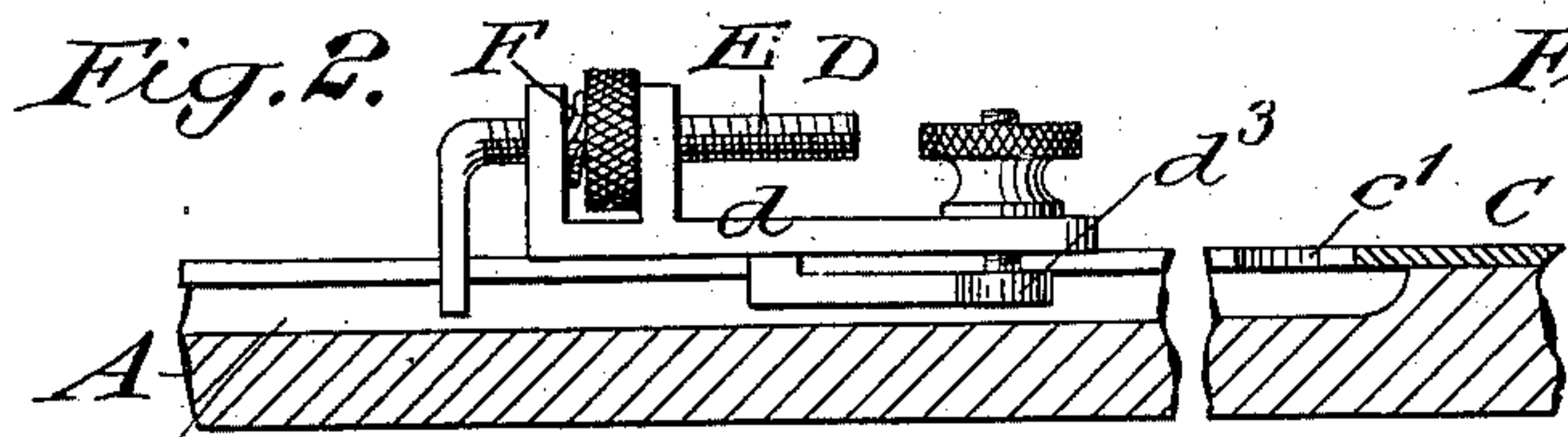
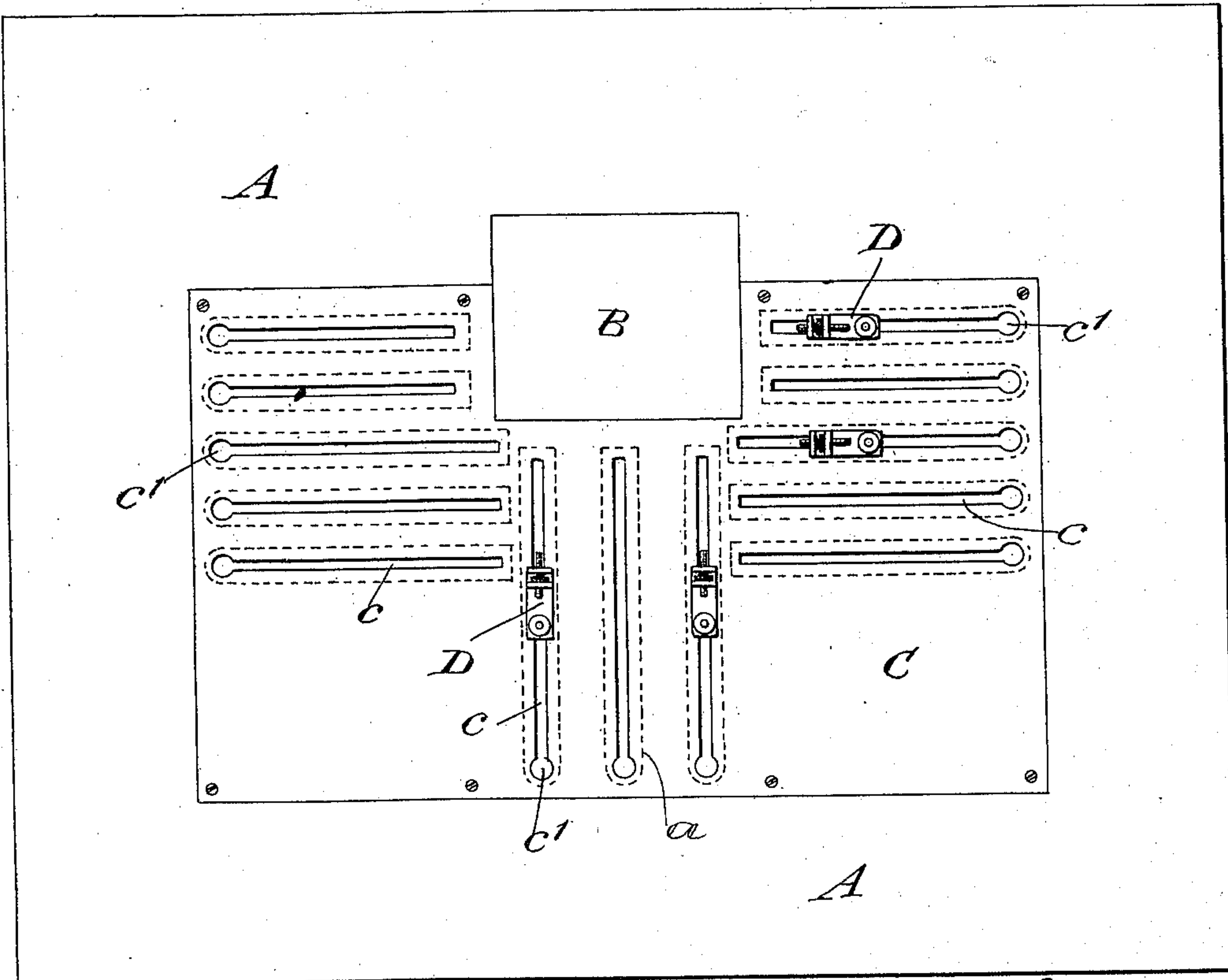


H. S. MAIDHOF.
ADJUSTABLE STOP FOR GAGE PLATES.

(Application filed Apr. 3, 1899.)

(No Model.)

Fig. 1.



Witnesses:
George Barry Jr.
Edward Vieder.

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UNITED STATES PATENT OFFICE.

HENRY S. MAIDHOF, OF NEW YORK, N. Y.

ADJUSTABLE STOP FOR GAGE-PLATES.

SPECIFICATION forming part of Letters Patent No. 638,971, dated December 12, 1899.

Application filed April 3, 1899. Serial No. 711,506. (No model.)

To all whom it may concern:

Be it known that I, HENRY S. MAIDHOF, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented a new and useful Improvement in Adjustable Stops, of which the following is a specification.

My invention relates to an improvement in adjustable stops for gage-plates, the object being to provide an improved stop which may be removably engaged with the gage-plate, which may be clamped to the gage-plate approximate to its desired adjustment, and which may then be accurately adjusted to the greatest nicety by an auxiliary adjusting device carried by the stop.

A further object of my invention is to provide a stop of the above character in which the screw-thread upon the auxiliary adjusting-bar need not be cut to the accuracy of a micrometer-gage and in which the guide and clamping-head of the stop are formed of the same piece, integral with the base-plate of the stop.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents a top plan view of the table of an embossing-machine and the gage-plate carried thereby. Fig. 2 is an enlarged detail view showing the adjustable stop in side elevation in its position within one of the grooves in the gage-plate. Fig. 3 is a transverse vertical section through a portion of the table and gage-plate looking toward the rear of the stop. Fig. 4 is a top plan view of the parts represented in Fig. 2. Fig. 5 is a transverse vertical section looking toward the front of the adjustable stop. Fig. 6 is an inverted plan view of the stop, and Fig. 7 is a vertical central section taken longitudinally through the stop.

The table is denoted by A, and it may be of any required shape and size to suit the purposes for which it is to be used.

The platen is denoted by B.

A gage-plate C is countersunk into the top of the table and partially embraces the platen B. This gage-plate C is provided with three sets of elongated slots c, extending from a point near the outer edge of the gage-plate inwardly toward three sides of the platen.

The table A is cut away underneath each of the slots c to form grooves a. The outer ends of the slots are enlarged, as shown at c'. 55

Adjustable stops D may be removably engaged with any of the elongated slots c. The base-plate of the adjustable stop is denoted by d, which base-plate has projecting from its bottom an L-shaped arm comprising a short portion or guide d', extended downwardly from a point a considerable distance from the rear end of the plate, and a rearwardly-extended portion d², spaced from and running substantially parallel with the plate. 60 The rear end of the arm d² is enlarged to form a head d³ of sufficient size to overlap the edges of the slot c when the head is within the groove a, the said head at the same time being sufficiently small to permit it to be withdrawn through the enlarged end c' of the said slot. The downwardly-extended portion d' of the arm is fitted to travel along between the edges of the slot c when the stop is in position, and the portion of the arm d² leading from the head d³ to the portion d' is sufficiently narrow to permit it to be withdrawn through the slot as the head d³ is withdrawn through the enlarged end c' thereof. 65 70 75

The device which I have shown for clamping the stop at any desired position along the slot comprises a screw d⁴, permanently secured at its head in the head d³ and extending upwardly through a hole d⁵ in the plate to a point a short distance above the top of the plate. A clamp-nut d⁶ is fitted to engage the portion of the screw above the plate, so that when the nut is screwed inwardly the stop will be clamped to the plate and when unscrewed the clamp will be released therefrom. 80 85 90

The plate D is provided near its front end with a pair of uprising ears or lugs d⁷ d⁸, spaced a short distance apart, through which a screw-threaded rod E passes. A thumb-nut e has a screw-threaded engagement with the said rod E between the ears d⁷ d⁸ for adjusting the rod E forwardly or rearwardly. A spring F is interposed between the ear d⁷ and the adjusting-nut e for holding the rod E rigidly in any desired adjustment and also preventing any lost motion in the said rod. The front end of the rod E is provided with an arm e', which extends downwardly 95 100

below the plane of the plate D, so that when the stop is in position in engagement with a slot the end of the arm e' will be located within the slot.

5 By the use of the spring F, which is herein represented as a spring-washer, the screw-thread upon the rod E may be cut roughly, thereby doing away with the necessity of cutting the screw to the nicety of a micrometer-
10 gage, thus cheapening the cost of the stop without impairing its efficiency.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts without departing from the
15 spirit and scope of my invention. Hence I do not wish to limit myself strictly to the structure herein set forth; but

What I claim is—

1. The combination with a gage-plate having an elongated slot therein, of an adjustable stop comprising a base-plate, an arm projecting downwardly from the base-plate through the slot and thence rearwardly spaced
20 from the plate and substantially parallel therewith, the rear end of the said arm being provided with an enlarged head overlapping the edges of the slot and means for drawing
25 the base-plate and rear end of the arm toward each other for clamping the stop to the gage-plate, substantially as set forth.

the base-plate and rear end of the arm toward each other for clamping the stop to the gage-plate, substantially as set forth. 30

2. The combination with a gage-plate having an elongated slot therein, of an adjustable stop comprising a base-plate, an arm projecting downwardly from the base-plate through the slot and thence rearwardly spaced
35 from the plate and substantially parallel therewith, the rear end of the said arm being provided with an enlarged head overlapping the edges of the slot and means for drawing the base-plate and enlarged head toward each
40 other to clamp the stop to the gage-plate comprising a screw projecting upwardly from the rear end of the arm through the base-plate and a clamping-nut engaging the screw above the base-plate, substantially as set forth. 45

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 29th day of March, 1899.

HENRY S. MAIDHOF.

Witnesses:

FREDK. HAYNES,
EDWARD VIESER.