

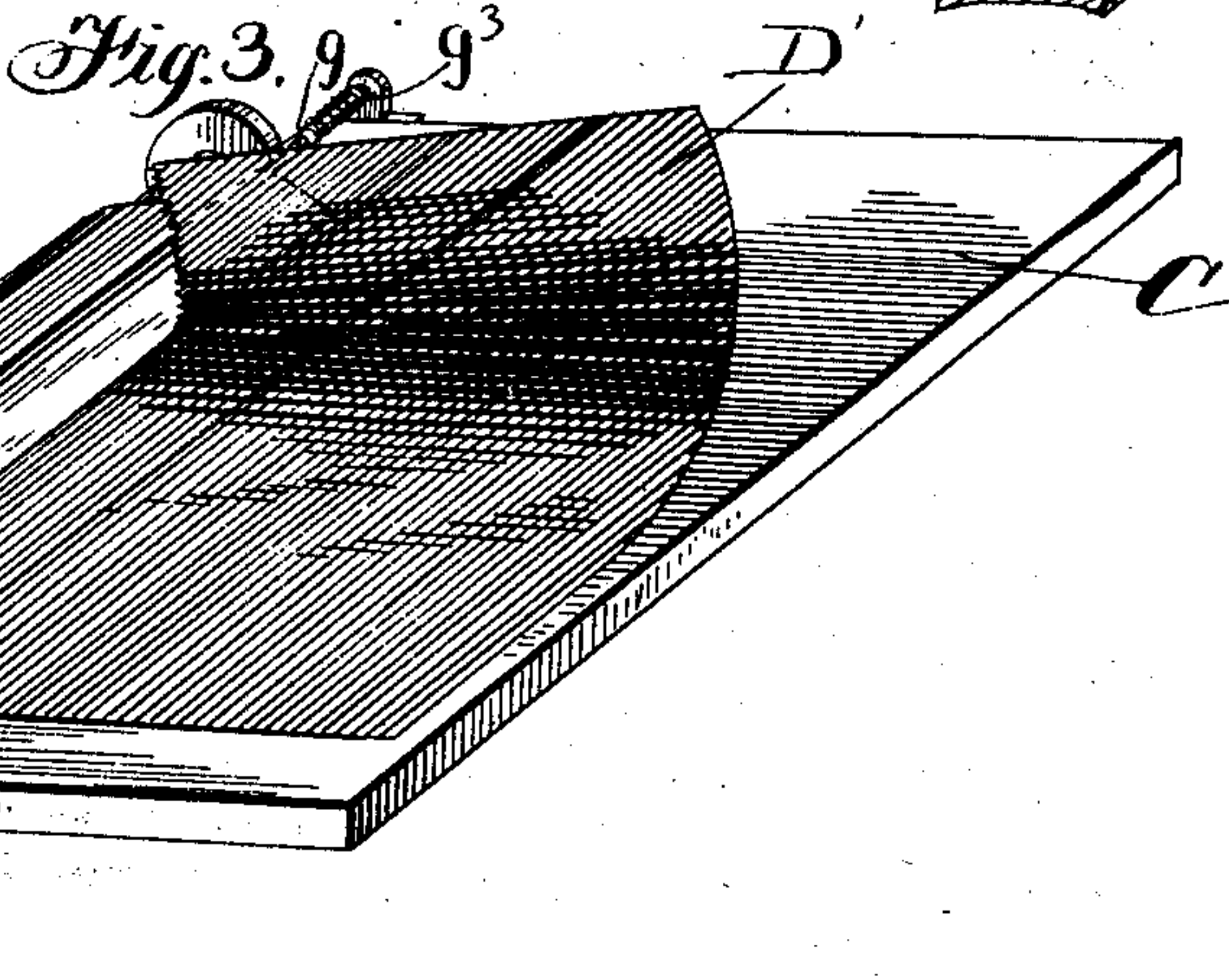
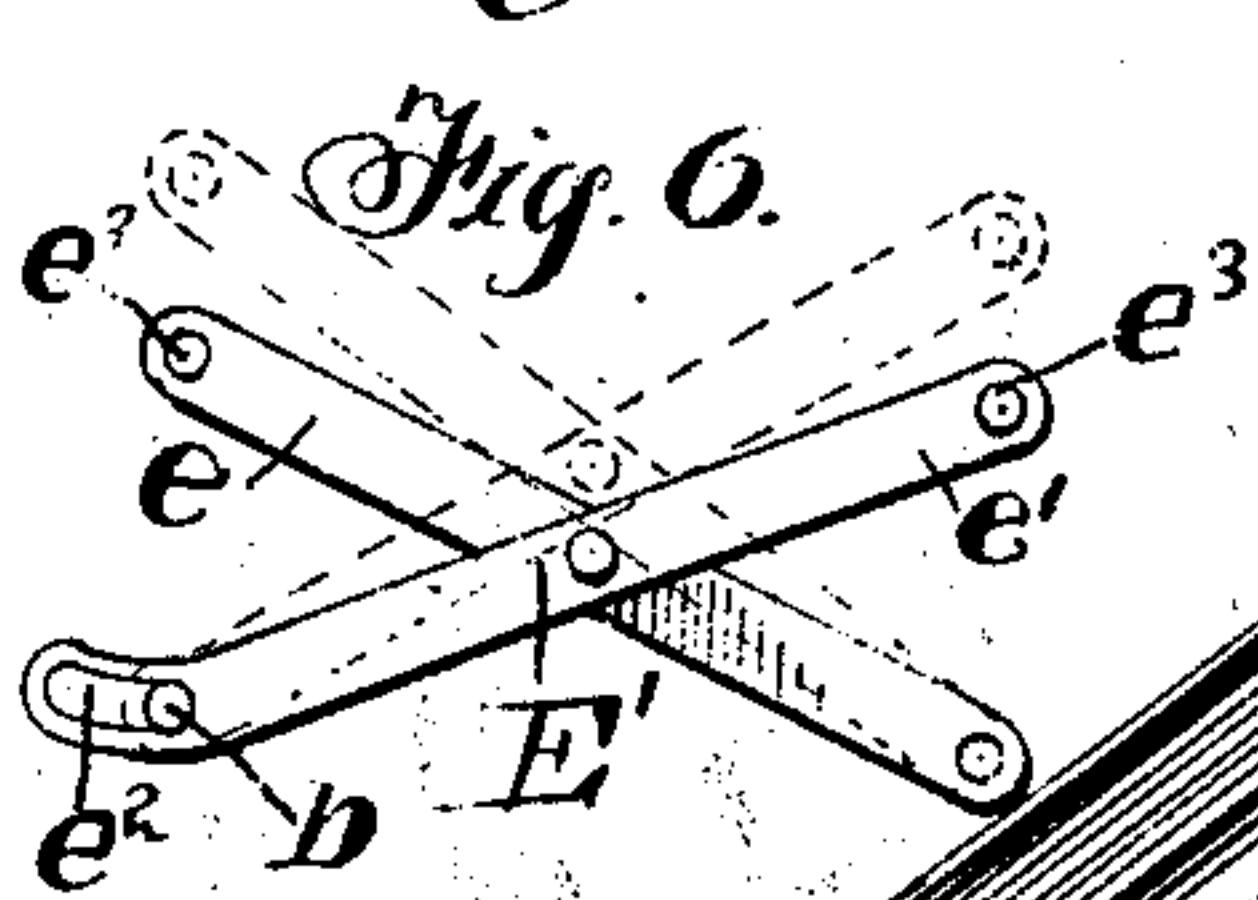
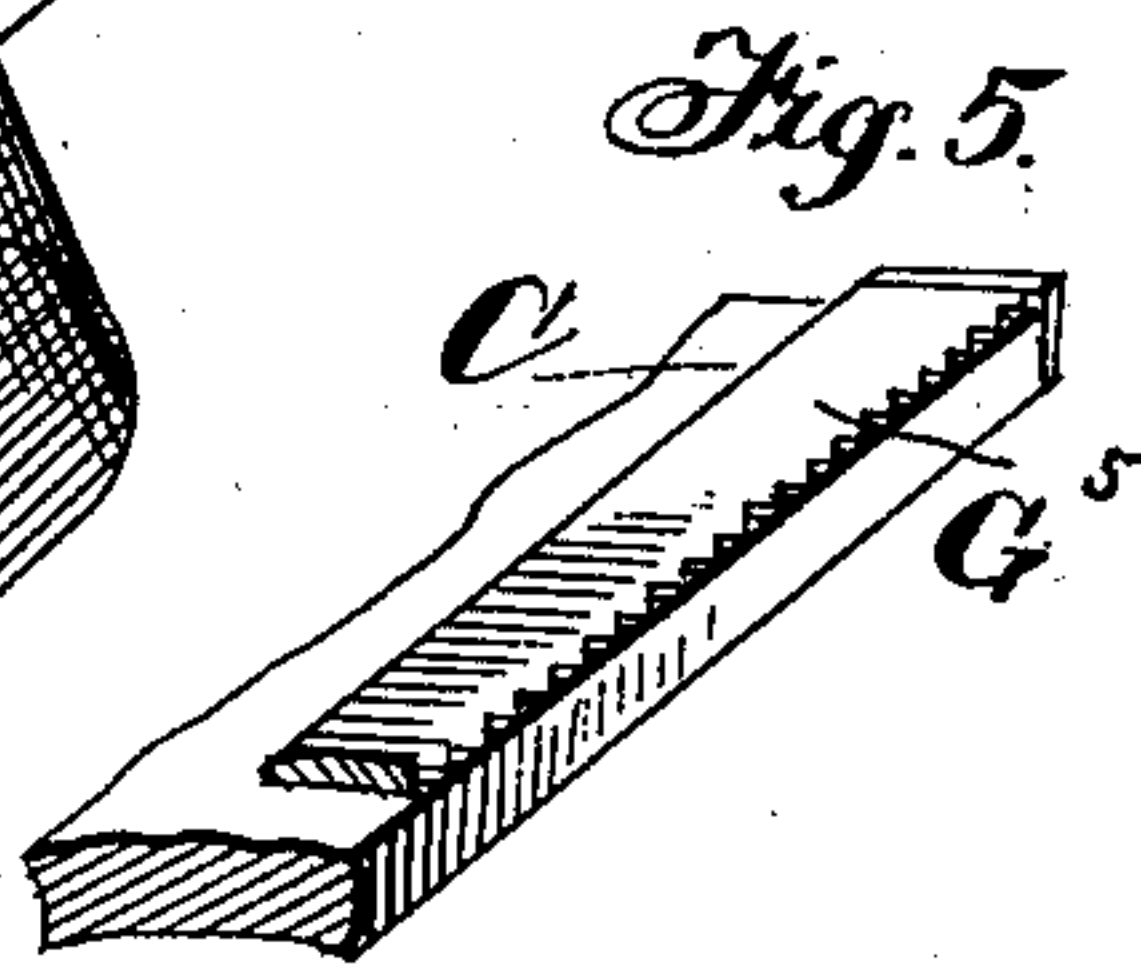
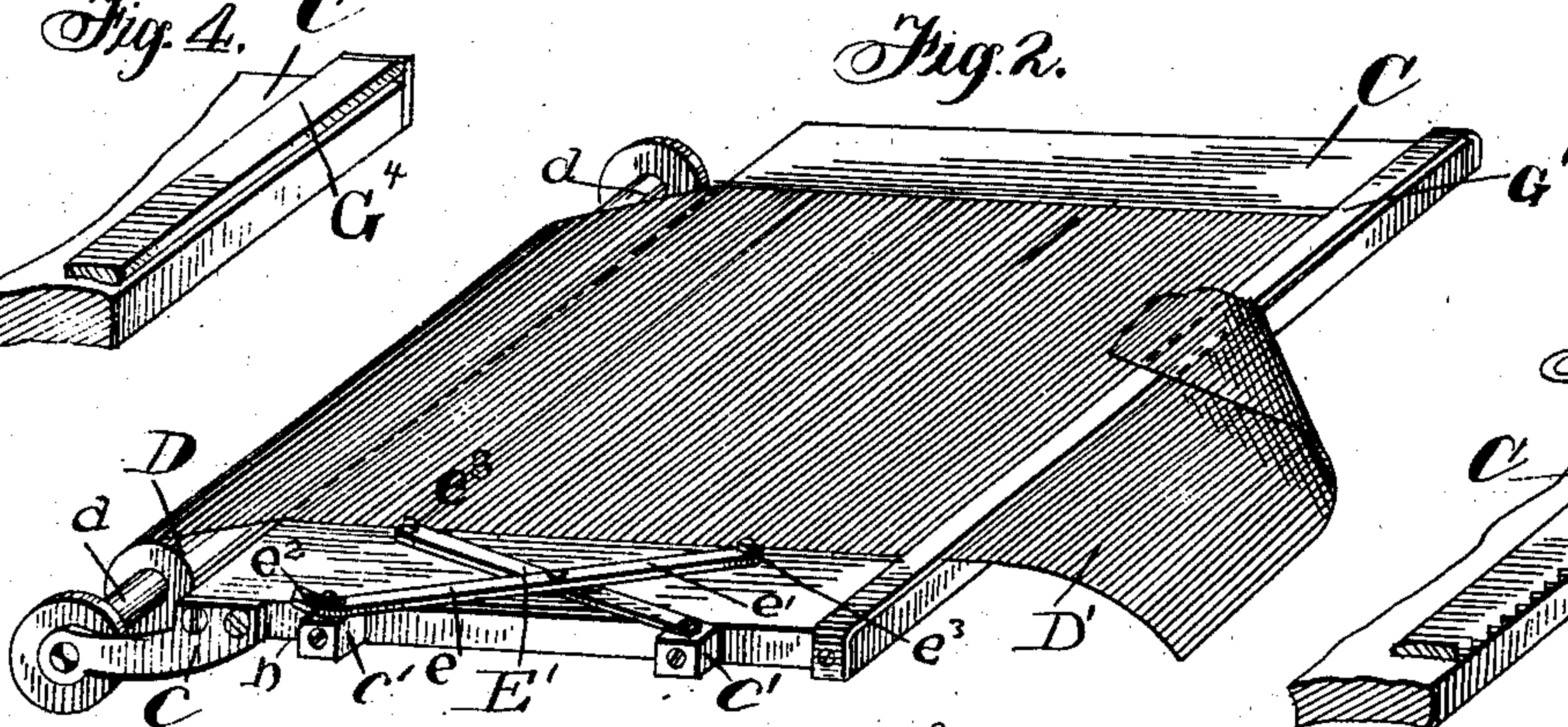
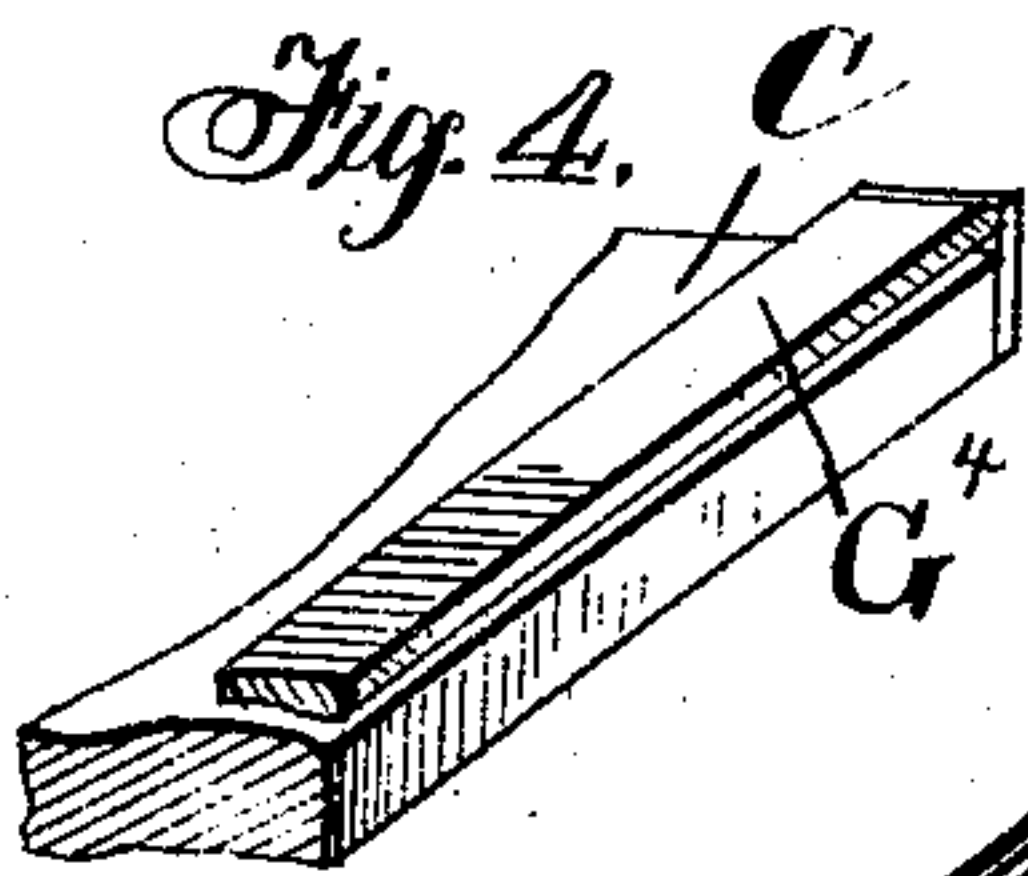
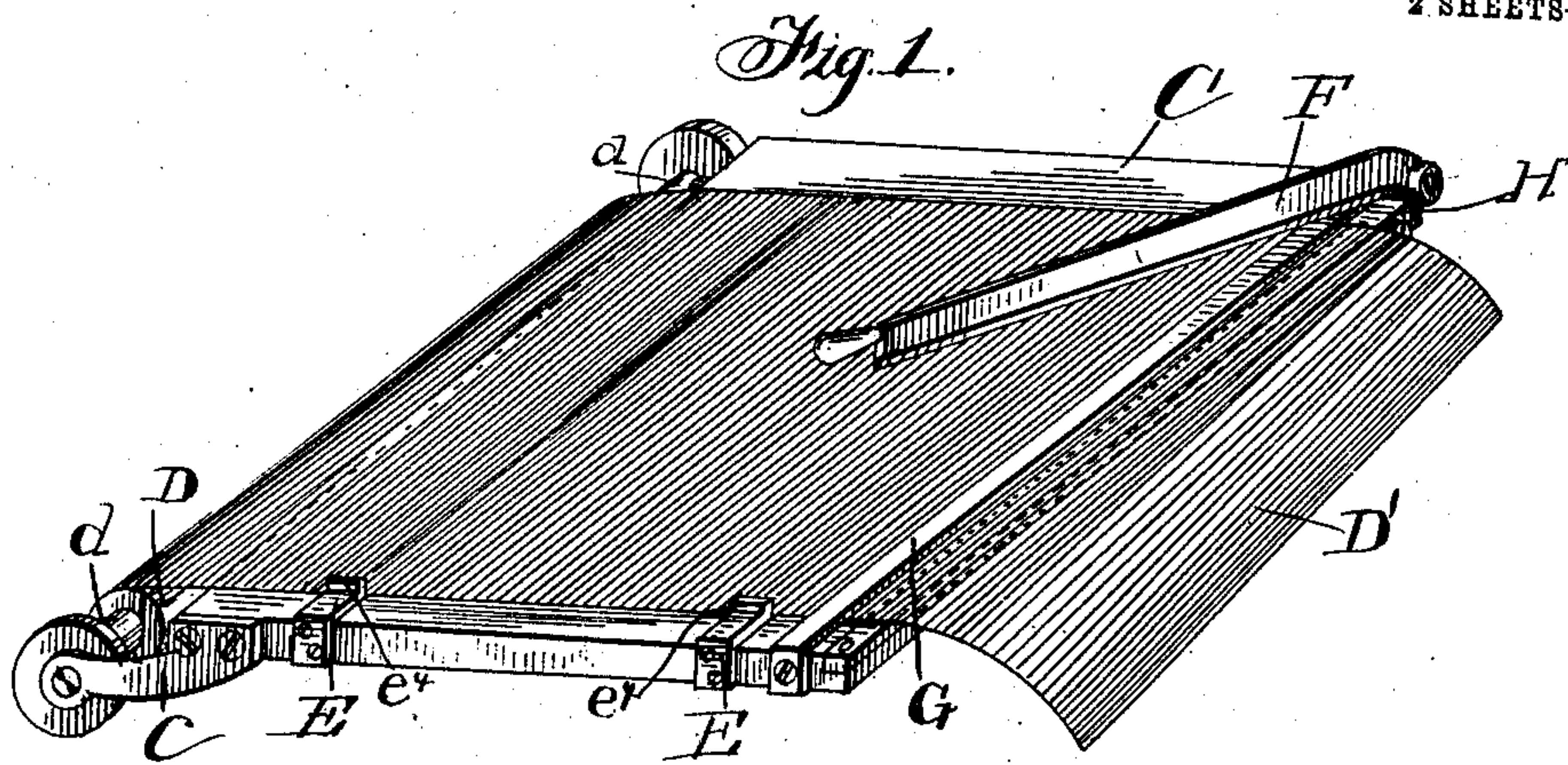
No. 840,119.

PATENTED JAN. 1, 1907.

G. W. DONNING.
WORK GUIDE FOR TYPE WRITERS.

APPLICATION FILED FEB. 14, 1903.

2 SHEETS—SHEET 1.



WITNESSES:

Eugene M. Shiner

Comins H. Parry

INVENTOR,
George W. Donning.

by A. E. Dreyfus,
his attorney.

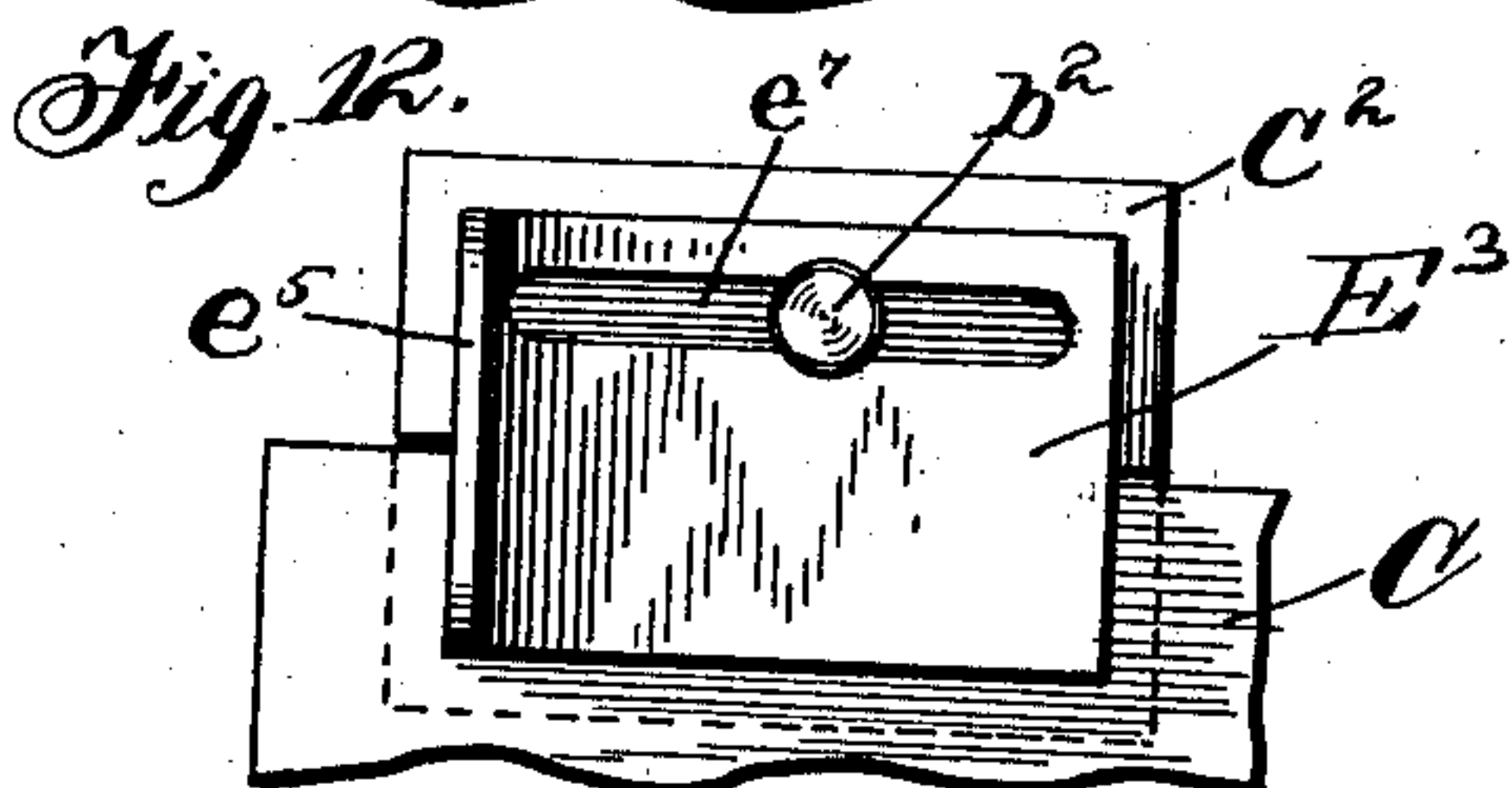
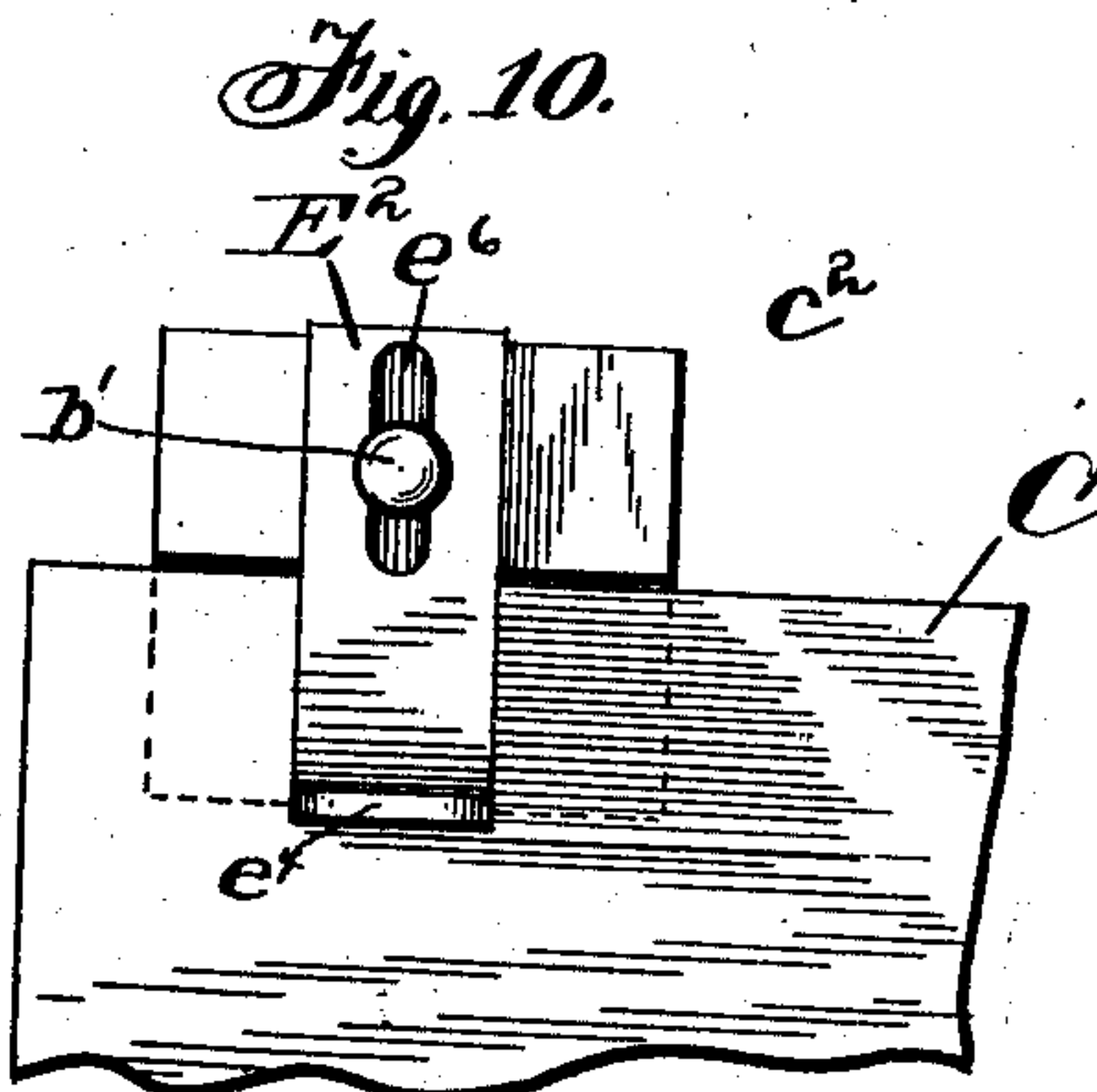
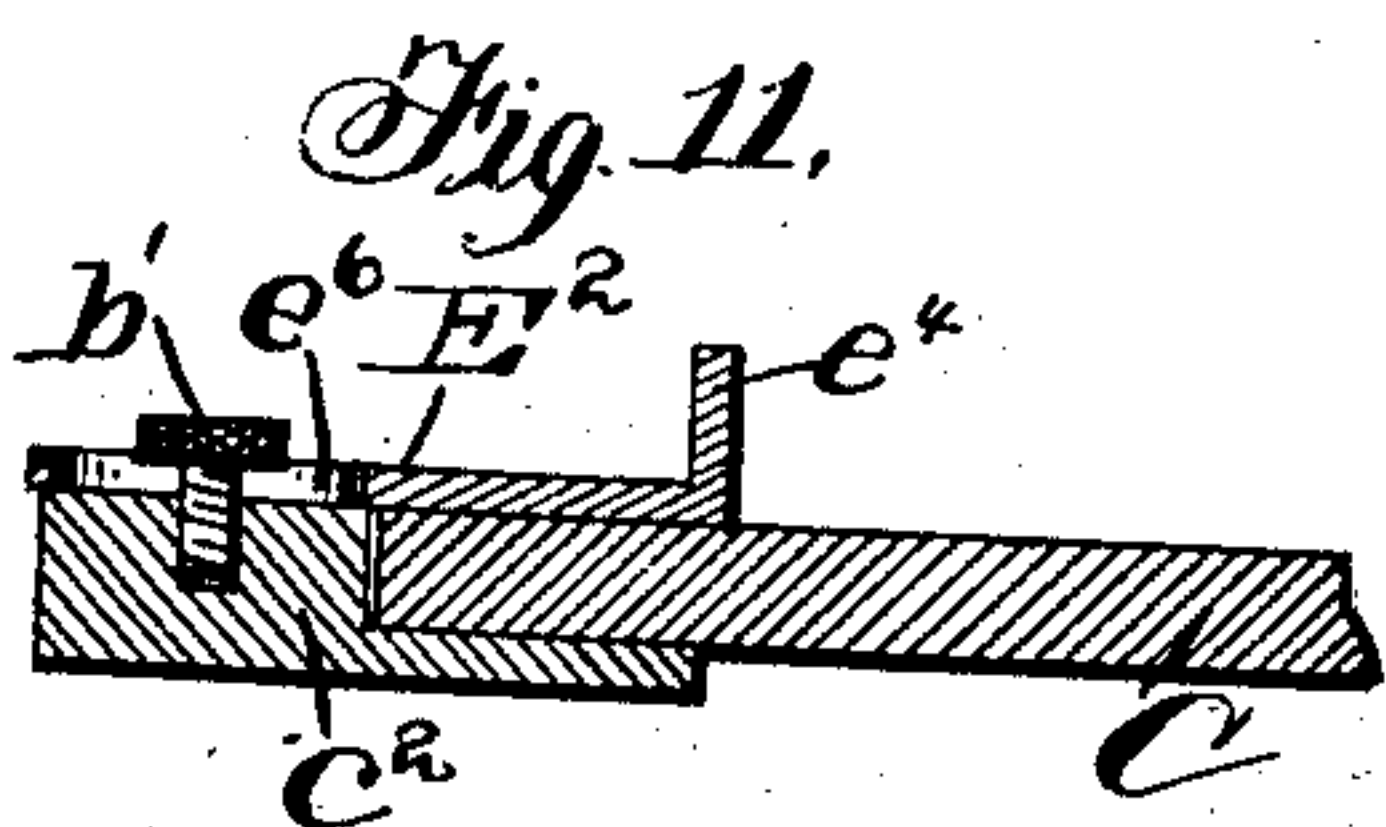
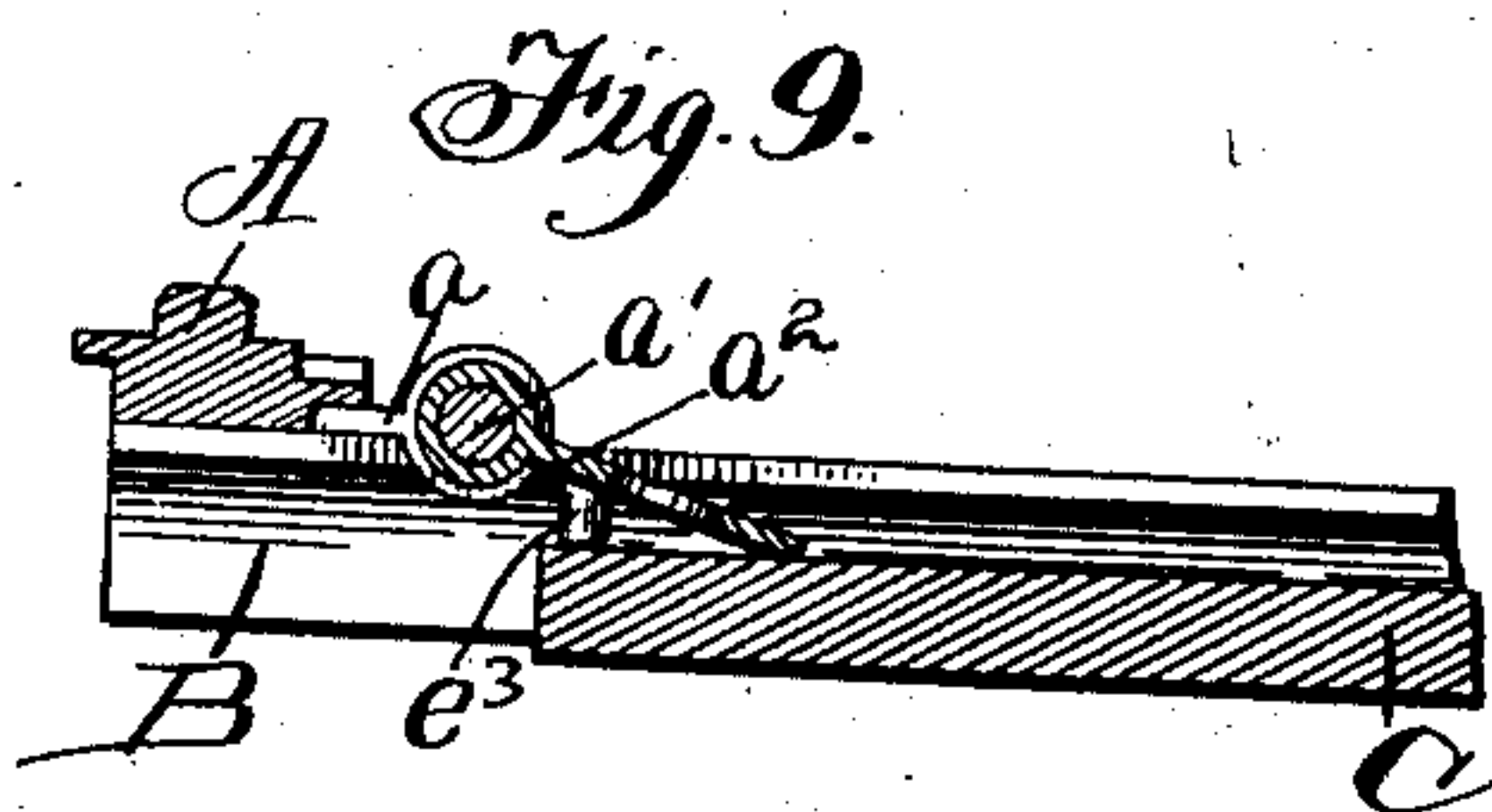
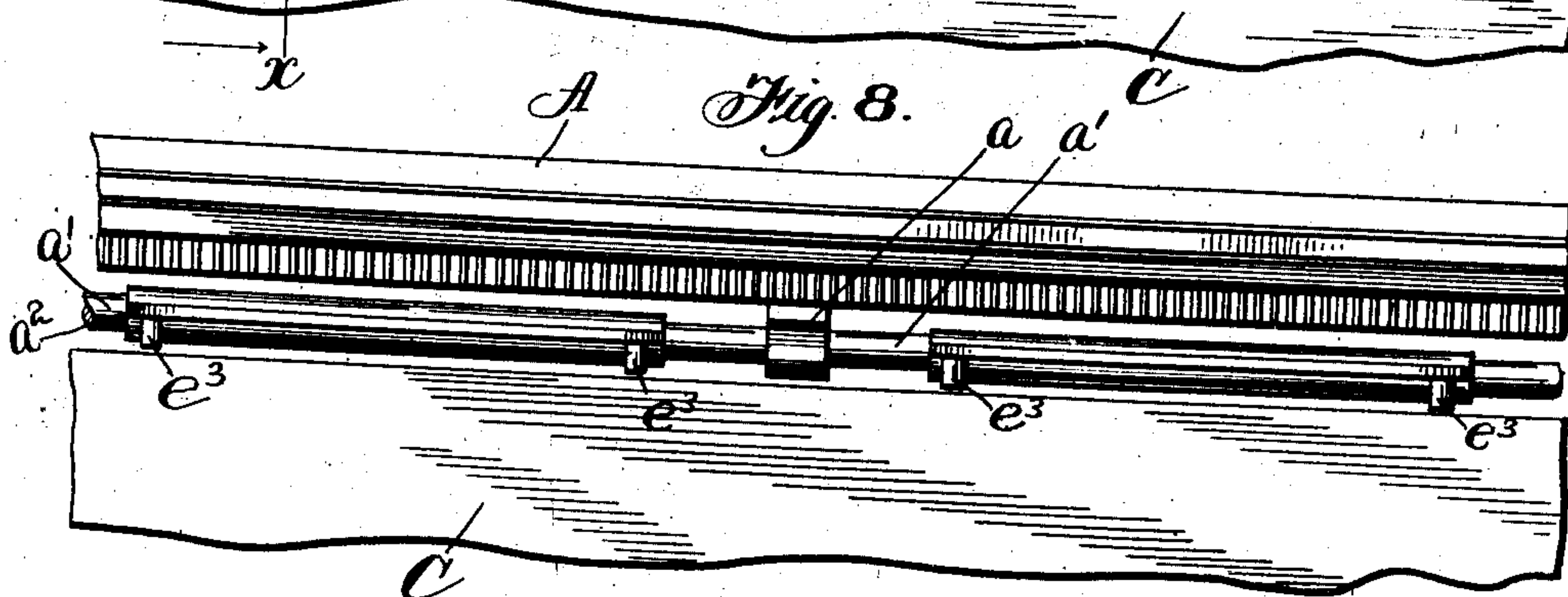
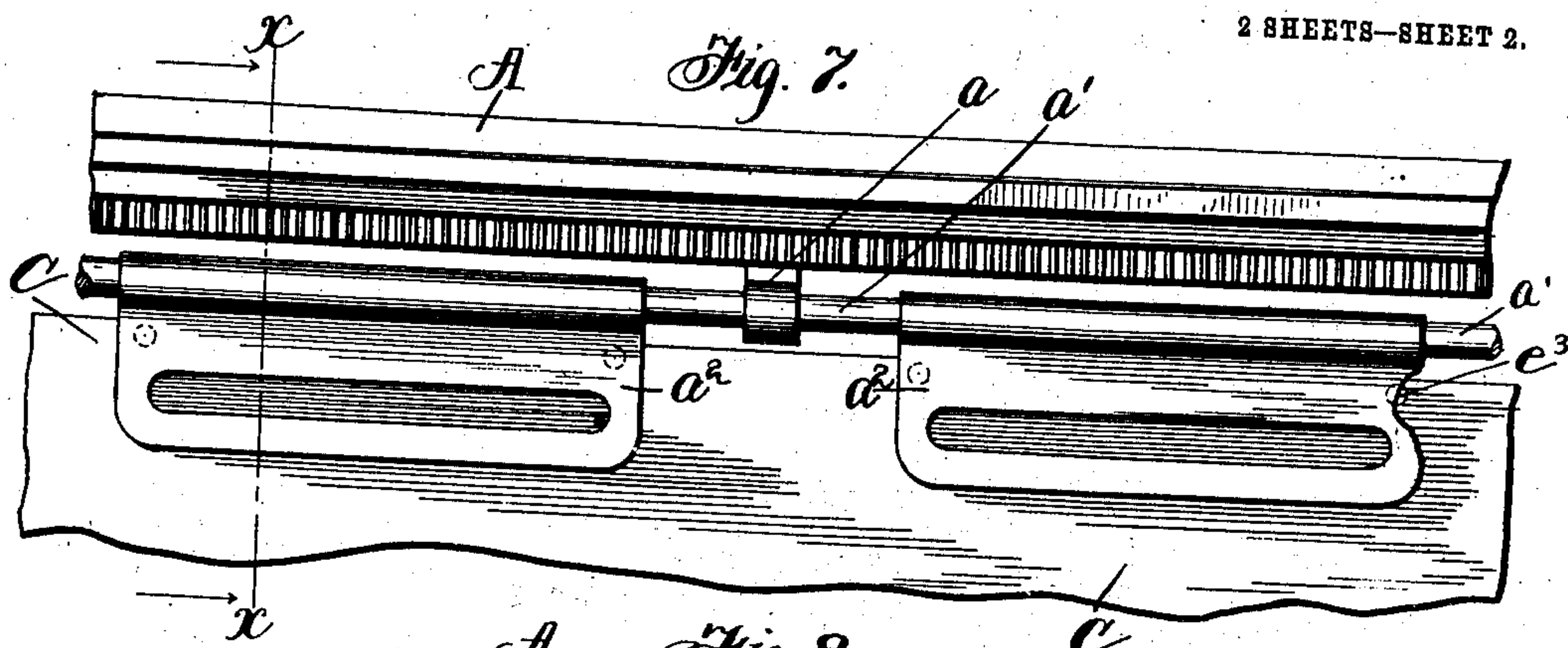
No. 840,119.

PATENTED JAN. 1, 1907.

G. W. DONNING.
WORK GUIDE FOR TYPE WRITERS.

APPLICATION FILED FEB. 14, 1903.

2 SHEETS—SHEET 2.



WITNESSES:

Eugene M. Shiner

Edmund H. Barry

INVENTOR,
George W. Donning.

by *A. S. Dyer*,
his Attorney.

UNITED STATES PATENT OFFICE.

GEORGE W. DONNING, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO
HARRY T. AMBROSE, OF ORANGE, NEW JERSEY.

WORK-GUIDE FOR TYPE-WRITERS.

No. 840,119.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed February 14, 1903. Serial No. 143,424.

To all whom it may concern:

Be it known that I, GEORGE W. DONNING, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Work-Guides for Type-Writers; 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.

This invention relates to guiding and cutting devices for single sheets or for the continuous sheet or ribbon of paper which may be taken from a roll and guided over the platen in a flat-platen type-writing machine.

The object of my invention is to provide devices of simple construction which will accurately guide a single sheet or a continuous sheet or ribbon of paper of variable widths or in variable positions from a roll over the platen. The means for this purpose embrace adjustable guides, which I have shown of various modified constructions.

Another object is to provide for conveniently cutting off or otherwise detaching a comparatively short sheet of paper from the sheet or roll, either before or after it has been printed. I provide various modified constructions and arrangements of devices for this purpose.

It is frequently desirable to use a continuous sheet or wide ribbon of paper from a roll, and in such case the roll may be conveniently mounted by journals in brackets or other attachments secured to the platen or table and the paper drawn off and guided into the printing position on the platen. The guides are placed in a convenient position on the platen and made adjustable to suit different widths of paper or different positions thereof on the platen.

The matter constituting my invention will be set forth in the claim.

I will now describe the details of construction and arrangement of my improved devices by reference to the accompanying drawings, in which—

Figure 1 represents a perspective view of a type-writer platen with my attachments applied thereto. Fig. 2 represents a similar view showing an adjustable work-guide and other modifications. Fig. 3 represents a simi-

lar view showing a modified arrangement of the paper-clamp and detaching devices. Figs. 4 and 5 represent detailed views, partly broken away, of modified paper cutting or detaching devices. Fig. 6 represents a detail view of adjustable or lazy-tong guides similar to those shown in Fig. 2. Fig. 7 represents a top plan view of a portion of the track-frame and a lateral clamp having guide-pins for the paper ribbon. Fig. 8 represents a similar view with the clamping-blade in a raised position. Fig. 9 represents a transverse section on the line xx , Fig. 7. Fig. 10 represents a top plan view of another form of adjustable guide. Fig. 11 represents a transverse section and elevation thereof, and Fig. 12 represents a top plan view of another modified construction and arrangement of an adjustable guide.

The track-frame A, Fig. 7, and the platen C are arranged in the table B in the usual manner, and the platen may be either fixed or tiltable. To the track-frame A are secured brackets a for holding the rod a' of the clamp-blades a^2 , as shown in Fig. 7. To the rear end of the platen C are secured two rearwardly-extending brackets c , having openings or journal-boxes for receiving the shaft d , which carries the paper-roll D. The wide sheet or ribbon D' of paper is drawn over the face of the platen, as shown in Figs. 1, 2, and 3, and in order to secure its proper alinement I provide suitable lateral guides secured to the platen, which may be made adjustable, as described below. The fixed guides E may be secured directly to the platen, as shown in Fig. 1, and are provided at their inner ends with flanges e^1 , forming abutting edges for the paper. I preferably make the guides E' , E^2 , and E^3 adjustable toward or from the edge of the platen. Suitable lateral supports $e' e'$ are secured to the edge of the platen, as shown in Fig. 2, and to such supports are pivotally connected the adjustable lazy-tongs guide E' , composed of the bars or members $e e'$, which are pivotally connected centrally, so as to have freedom of movement. The inner end of the bar e' is curved and provided with a curved slot e^2 , through which is passed a clamp-screw b , as shown in Fig. 2. This construction provides for adjusting the bars $e e'$ outward or inward and setting them in any desired position. The outer ends of the bars

e e' are provided with the guide-pins e^3 as a bearing or abutment for the edge of the paper sheet.

The lateral clamping-blades a^2 for the paper sheet are also provided with guide-pins e^3 , as shown in Figs. 7, 8, and 9.

A modified construction of an adjustable guide device is shown in Figs. 10 and 11, in which a guide-piece E^2 is provided with a turned-up flange e^4 at its inner end and with a longitudinal slot e^6 , through which is passed a set-screw b' , which enters an opening or socket in the supporting-bar c^2 . It will be understood that by means of the slot e^6 and set-screw b' the guide-piece E^2 can be adjusted outward or inward to suit the width of paper or the position of the sheet of paper on the platen.

It sometimes occurs that a longitudinally-adjustable guide is required for cards or other special form of paper to be printed, and for this purpose I provide a guide-piece E^3 , (shown in Fig. 12,) having an abutting edge e^5 and a longitudinal slot e^7 , through which is passed a set-screw b^2 into the supporting block or bar c^2 .

Since the paper is used in sheets of various sizes or in a continuous sheet or ribbon, I provide means for cutting it off into suitable lengths, as illustrated in Figs. 1, 2, 3, 4, and 5. At the front edge of the platen I may secure a shearing-bar F , having a sharp outer edge, as one member of a shear or cutter, the other member H of which is pivotally connected at one end either to the bar F or to the platen. In order to facilitate the operation and prevent the paper sheet from slipping, I provide a flexible presser-bar G , secured at its opposite ends to the edges of the platen, as shown at Fig. 1. Instead of a cutter H , I may simply provide a flexible presser-bar G , secured at the front edge of the platen, as shown in Fig. 2, by means of which the paper may be detached by tearing it against the edge of the bar. In Fig. 4 there is shown a different form of presser-bar G^4 , the same being provided with a beveled edge, and in Fig. 5 there is still another form of this presser-bar G^5 , the same having a serrated edge. Again, in Fig. 3 there is shown a further modification of the presser-bar G^3 . The same having a sharp beveled front edge may be secured at its back edge to a rod g , resting in journal-boxes or suitable openings g^3 of the brackets c . A handle g^2 is applied to one end of the rod g , and a coiled spring g' is also secured to the rod for causing the bar g^2 to act as a clamp and bear at its front edge upon

the sheet of paper, as shown in Fig. 3. It will thus be seen that the paper sheet may be cut or otherwise detached either at the front edge of the platen or at the rear edge thereof. The paper sheet may also be detached at the rear edge of the platen, either before or after being type-written or printed. The bar G , mounted in bearings, as shown in Fig. 3, may have its front edge sharpened or serrated, respectively, of the same form as shown in Figs. 4 and 5, for facilitating the cutting operation.

The operation of my devices is very simple and requires no extended description to enable an operator to properly adjust and use them. The slot e^2 in the bar e' of the lazy-tongs guide device E' is sufficiently curved to compensate for the varying length of the arm or bar e' by reason of the movement of the bar or pin b in the slot, so as to maintain the parallel movement of the guide-pins e^3 .

It is to be understood that I do not limit myself to any particular disposition of these guides, as they may be arranged wherever it may be desirable to meet the requirements of any particular work.

The paper-guiding device characterized by my invention is capable of being positioned over the platen stationarily at a predetermined point, so that the work-sheet shall at all times be positioned and guided, and whether in the forms illustrated in Figs. 1, 2, 10, 11, and 12 or in the form illustrated in Figs. 7, 8, and 9 the operative face of said device—that is, that which is abutted by the work-sheet—is constructed and arranged to be positioned relative to the work-sheet.

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

In a type-writing machine, the combination with the platen, of a paper-roll, the lazy-tongs guiding device adjustable in a direction at right angles to the feed of the paper and pivoted to supports at one side of the platen, and composed of bars, having guide pins or projections at their inner ends, and one of said bars having a curved slot at its outer end and a set-screw therefor, whereby parallel movement of the guide-pins may be maintained, substantially as described.

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

GEORGE W. DONNING.

Witnesses:

W. L. BILLMYER,
A. L. BEIDERHASE.