

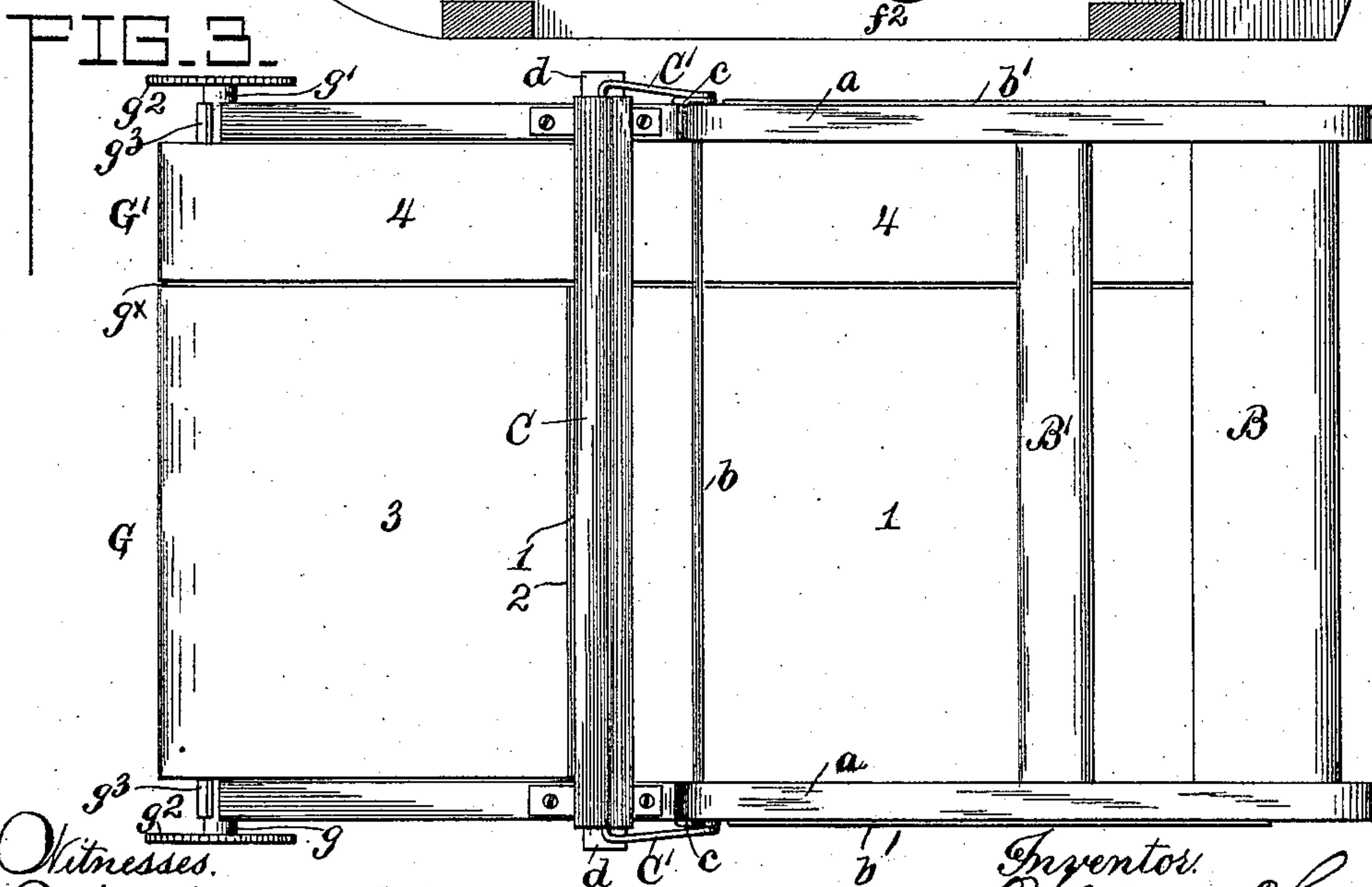
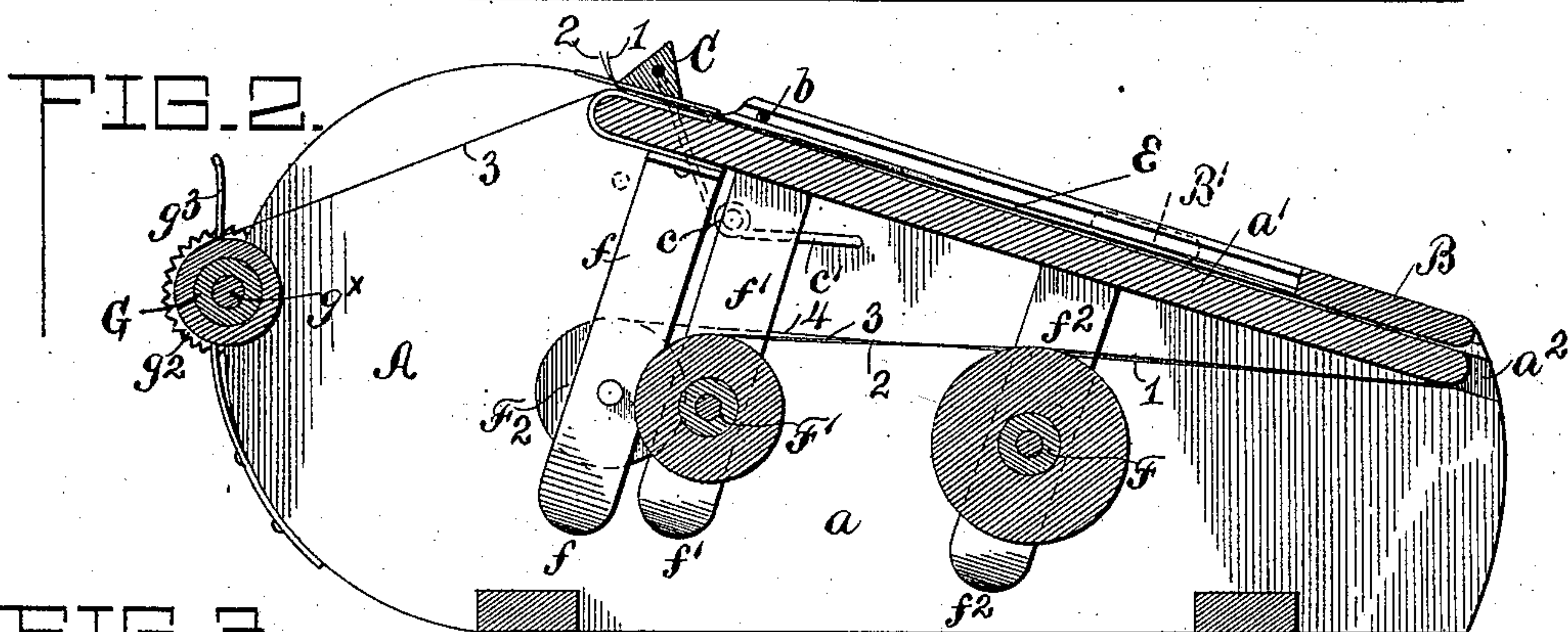
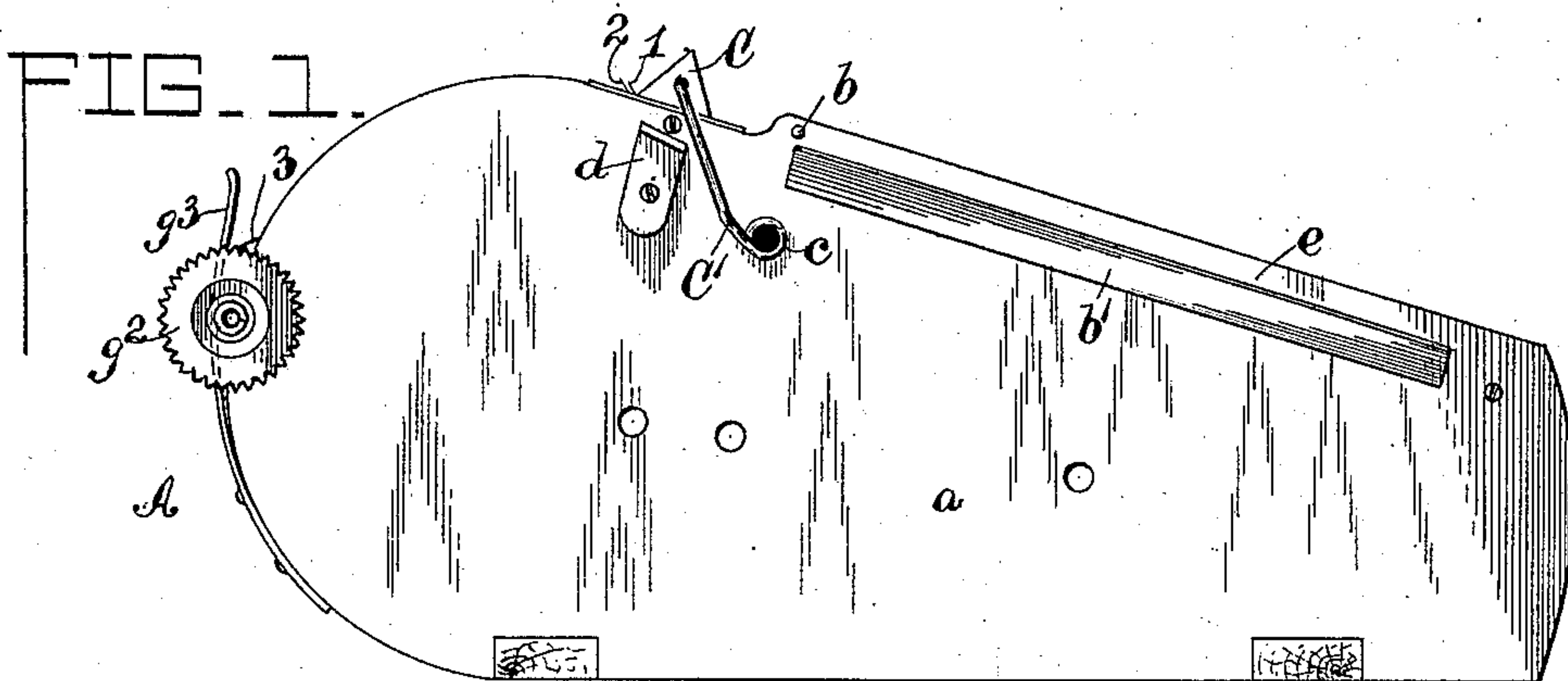
(No Model.)

2 Sheets—Sheet 1.

W. H. KELLY.
AUTOGRAPHIC REGISTER.

No. 575,958.

Patented Jan. 26, 1897.



Witnesses.
Walter Ellwood Allen.
Walter Allen

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William H. Kelly
By J. H. Hester
Att'y.

(No Model.)

2 Sheets—Sheet 2.

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FIG. 4.

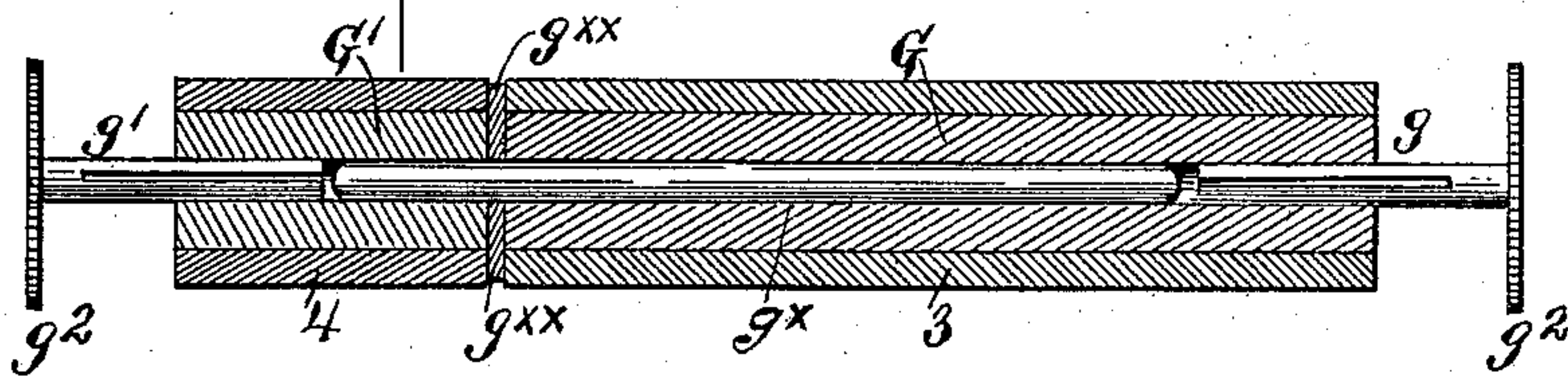


FIG. 5.

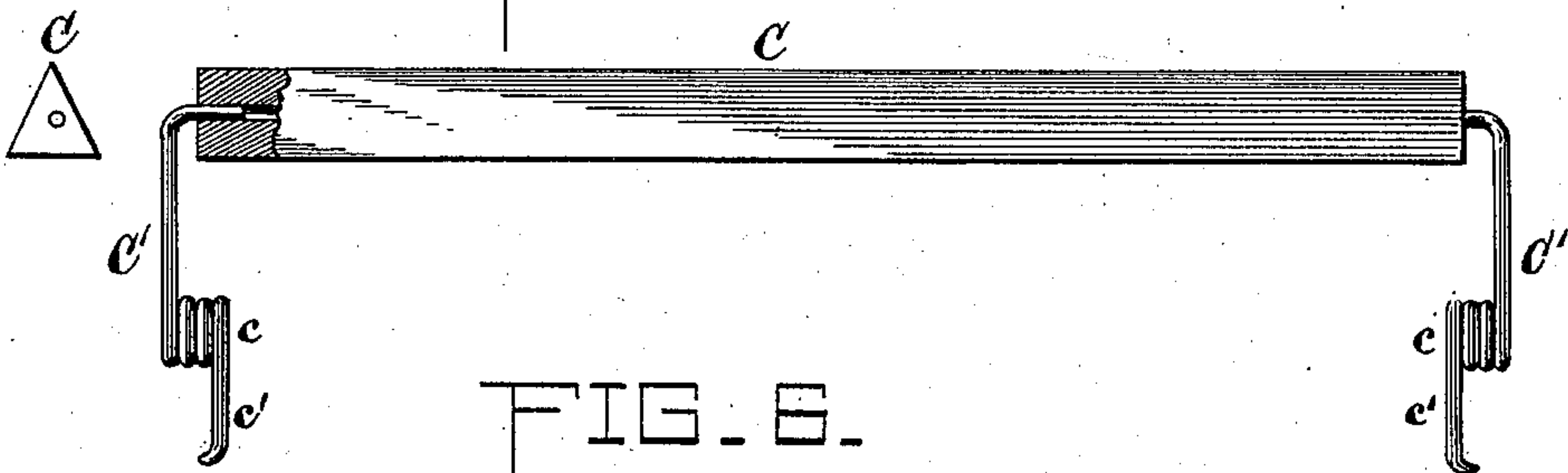


FIG. 6.

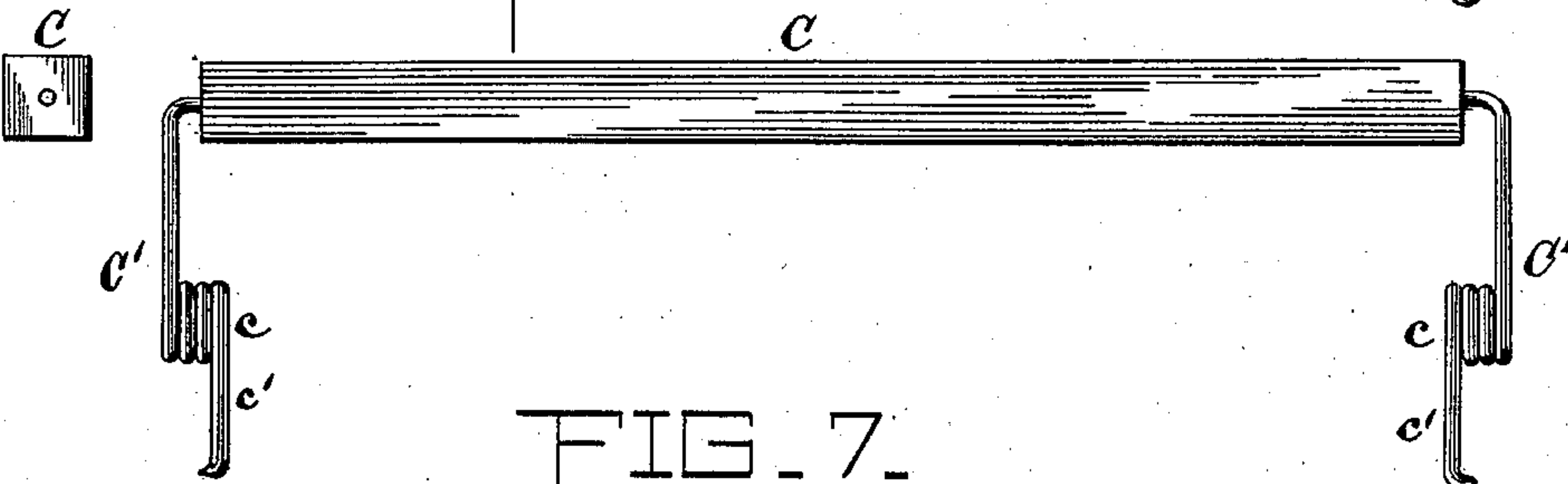
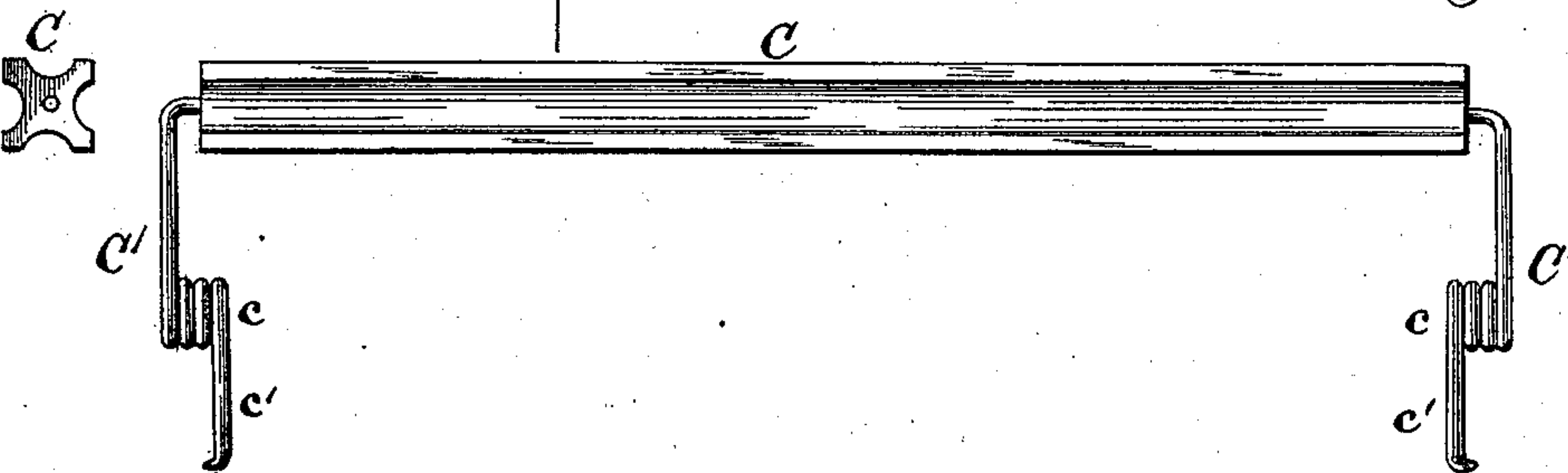


FIG. 7.



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UNITED STATES PATENT OFFICE.

WILLIAM H. KELLY, OF NEW YORK, N. Y.

AUTOGRAPHIC REGISTER.

SPECIFICATION forming part of Letters Patent No. 575,958, dated January 26, 1897.

Application filed April 16, 1896. Serial No. 587,830. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KELLY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Autographic Registers; 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 and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in that class of devices known as "autographic registers" for use, more especially, in stores; and it has for its object, among other things, to facilitate grasping or getting a hold upon the paper or slip in pulling or drawing out the same; to provide for the feeding or drawing out of the itemized record-slips and of the summary or total record-slip sheet independently or separately or the conjoint or simultaneous feeding or drawing out of the said slips or paper; to effect the winding up of the paper separately or independently, and to provide for the propping or holding of the slip or paper manipulating and tearing bar or contrivance temporarily out of contact or engagement with the record slips or paper for convenience when adjusting the latter in place, and to prevent the blurring by the hand of the record or memoranda while being made upon said slips or papers, and to guard or form a check against fraud or omissions, accidental or intentional, in the record.

To these ends the invention consists of the sundry combinations of parts and their construction and arrangement, substantially as hereinafter more fully described, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation, Fig. 2 a longitudinal section, and Fig. 3 a plan view, of my improved cash-recorder. Fig. 4 is a detailed section of two of the paper-winding rolls. Fig. 5 is a detail view of the paper manipulating and tearing bar. Figs. 6 and 7 are views of modifications thereof.

In the embodiment of my invention I pro-

vide the usual support or frame A, comprising side pieces *a a*, secured together by rigid bottom cross-pieces, and an inclined board or rest *a'*, preferably slid into and secured by screws in place in inclined longitudinal grooves *a²* in the inner sides of said side pieces. A rod *b*, held in apertures in the side pieces *a* of the support A, from which it is readily removably, spans the same a short distance above the rest or board *a'*, near the upper end thereof, to aid in guiding the paper to the tearing and manipulating bar, presently described.

A fixed hand-rest B is secured in the open top of the casing or frame A at its lower portion, while farther up may be arranged therein a sliding hand-rest B', for use only, however, where a large or extra sized recorder is employed, and consequently the opening therein would require the provision of an additional hand-rest to remove the hand from the paper.

C is the paper or slip manipulating and tearing bar, of prismatic or triangular or other angular form in cross-section, with its longitudinal edges adapted to sever the slip or paper as it is caught and passed along the same by the hand, as well understood. The bar C is axially hung or pivoted between the upper inturned ends of spring-arms C', entering sockets or apertures in the ends of said bar, said arms having intermediate laterally-coiled spring portions *c*, seated in apertures in the sides of the casing A, with their inner terminal portions *c'* oppositely extended from said coiled spring portions upon the inside of said casing and having their ends bent laterally and engaging or let into apertures or recesses in the sides of said casing, thus securing the spring-arms themselves removably in place. The normal tension of the spring-arms C' is to hold the bar C flat down upon the paper on the rest or board *a'* as against slipping while being torn off along the edge of said bar.

Pivoted at their lower ends to the sides of the casing or frame A, adjacently to the spring-arms C' of the bar C, are thumb-pieces *d*, with outturned or lateral upper ends, adapted, by properly swinging said thumb-pieces, to engage said spring-arms and thus slightly remove and temporarily hold the bar C away

from the paper to permit the paper to be readily or conveniently adjusted thereunder, as occasion may require.

Resting upon the paper rest or board a' is the carbon-sheet E, inserted through coincident slots or openings e in the sides of the casing or frame A and held in position by bent metal pieces or strips b' , forced thereinto upon said sheet, as shown.

Arranged in the casing or frame A under the paper rest or board a are three rolls $F F' F^2$, and a short distance therefrom beyond said paper rest or board are also arranged two other rolls $G G'$, having shafts $g g' g^x$.

The rolls $F F' F^2$ are supported as shown or in any other suitable way, having their shafts hung in the sides of the casing A and in pendants or hangers $f f' f^2$, respectively, secured to and depending from the under side of the paper rest or board a' .

The rolls $G G'$ have each a continuous passage therethrough and are arranged upon a central shaft g^x , inserted part way into the passages of the rolls and upon short slitted shafts $g g'$, by the compression of which they (said latter shafts) are permitted to be passed the required distance into said passages at the outer ends of said rolls, and by the outward pressure of the compressed shafts the latter are retained therein. A disk g^{xx} is slipped upon the shaft g^x before the insertion of said shaft into the rolls $G G'$ and holds the rolls apart, permitting the rolls to turn independently of each other.

The shafts $g g'$ of the rolls $G G'$ are provided with milled disks or wheels $g^2 g^2$ for their convenient manipulation or rotation, and are held in place upon the end of the casing or frame A by spring clasps or straps $g^3 g^3$, with their lower portions secured upon the ends of the side pieces a of the casing and having their upper ends outwardly curved for the ready insertion of said shafts in place.

Suitable strips of paper, hereinafter specifically designated, are wound around and from the roll F' to the roll G and from the roll F^2 to roll G' , from roll F one strip of paper being passed in common with the aforesaid strips of paper over the paper rest or board a' , with the carbon-sheet previously referred to sandwiched between the two underlying strips ready to receive the requisite data or memoranda in using the recorder, as well understood.

It is obvious that in lieu of the two rolls $G G'$ a single roll could be used for the conjoint winding or rolling up of the paper thereon.

In the modifications of Figs. 6 and 7 it will be seen that the paper-manipulating bar may be either quadrangular in form or have approximately rectangular corner projections thereon and operate to effect the desired end.

The desired memoranda after making a sale having been made or noted by the salesman in the usual way upon the slip or strip 1 in itemized form, duplicated and triplicated

through the interposed carbon-sheet upon the slips 2 3 thereunder, respectively, and the noting of the total thereof on the slip or strip 4, the slip or strip 1, with the duplicate slip 2, is caught and torn off along the bar C and passed to the cashier, the torn-off slip 2 being handed later on to the customer or purchaser. The total-carrying slip 4 and the triplicate itemized slip 3 are rolled up on their respective rolls $G G'$ for the reference of the salesman.

Among other advantages of my invention it is mentioned that were the tearing-bar C stationary it would be necessary, in order to tear off each subsequent slip, as well as for the first slip torn off, to push up the paper to be grasped before this could be done, whereas, in the practice of my invention, by grasping with the hand the bar C, together with the end of the paper, and giving it a turn the paper is projected sufficiently to permit of obtaining a hold on the paper necessary to enable it to be readily drawn forward and torn off along the straight edge of the bar C; also, a complete check or guard is provided by the use of my invention in the provision of triplicate itemized slips, together with a totality or summary slip, one itemized slip and the summary-slip being retained in the recorder for the salesman, with which the cashier's and customer's slips should tally or register to be correct.

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

1. In an autographic register, the combination, with the casing or frame and the paper rest or support, the angular tearing-bar and the spring-arms, with said tearing-bar axially hung between their upper ends and having their opposite ends bearing in said casing, said spring-arms being fulcrumed intermediately of their ends in said casing, substantially as set forth.

2. In a cash-recorder, the combination with the paper rest or support and the casing, of the angular tearing-bar, the arms carrying said bar and having intermediate lateral springs seated in the sides of said casing, with their inner projecting portions engaging the inner surface of said sides, substantially as specified.

3. In an autographic register, the combination, with the casing or frame, of the slip or paper winding rolls and the shafts, the intermediate one having a disk thereon, between said rolls, and the end shafts being slitted and provided with means for turning said rolls, substantially as set forth.

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

WM. H. KELLY.

Witnesses:

CHARLES N. HUNDT,
WILLIAM H. DONOHUE.